


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>					
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Cane Creek 16-2-25-18H					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT CANE CREEK					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME CANE CREEK					
6. NAME OF OPERATOR FIDELITY E&P COMPANY						7. OPERATOR PHONE 720 931-6459					
8. ADDRESS OF OPERATOR 1700 Lincoln Street Ste 2800, Denver, CO, 80203						9. OPERATOR E-MAIL Robert.Sencenbaugh@fidelityepco.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML44333			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		885 FNL 708 FEL		NENE	16	25.0 S	18.0 E	S			
Top of Uppermost Producing Zone		889 FNL 708 FEL		NWNW	16	25.0 S	18.0 E	S			
At Total Depth		889 FNL 770 FWL		NWNW	16	25.0 S	18.0 E	S			
21. COUNTY GRAND			22. DISTANCE TO NEAREST LEASE LINE (Feet) 708			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1903			26. PROPOSED DEPTH MD: 11658 TVD: 8010					
27. ELEVATION - GROUND LEVEL 5277			28. BOND NUMBER 190017646/104891324			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Municipal					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
Cond	26	20									
Surf	17.5	13.375	0 - 1150	54.5	J-55 Buttress	0.0	Type III	400	2.47	12.3	
							Type III	212	2.14	14.2	
I1	12.25	9.625	0 - 4950	40.0	L-80 Buttress	0.0	Class G	1155	1.25	14.4	
							Class G	350	1.25	14.4	
Prod	8.5	7	0 - 4900	29.0	P-110 Other	16.5	Class G	360	1.24	16.8	
			4900 - 8260	32.0	HCP-110 LT&C	16.5	Class G	140	1.2	18.0	
			8260 - 11658	13.5	P-110 Other	16.5	Class G	263	1.2	18.0	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Stephanie Masters			TITLE Operations Tech			PHONE 307 675-4924					
SIGNATURE			DATE 01/27/2014			EMAIL Stephanie.Masters@fidelityepco.com					
API NUMBER ASSIGNED 43019500460000			APPROVAL  Permit Manager								

Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 16-2-25-18H
SEC 16 / T25S / R18E, 885' FNL & 708' FEL
GRAND COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Sub-Sea (ft)	Lithology	Objective
Windgate Sand	389	+4,908	Sandstone	
Chinle	692	+4,605	Sand/Shale	
Moenkopi	1,097	+4,200	Sand/Shale	
Cutler	1,731	+3,566	Sandstone	
Honaker Trail	3,077	+2,220	Sand/Evaporite	
Paradox	4,350	+947	Salt/Clastics	Secondary
Cane Creek Shale	7,877	-2,580	Shale	Primary
T.D.	8,010			
T.D. (LATERAL MD)	±11,658			

Estimated TD: **8,010' TVD/ 11,658' MD****Anticipated BHP: ±6,850 Psig**

1. Lost circulation in all intervals.
2. Cement isolation is installed to surface of the well isolating all zones by cement and casing.

3. PRESSURE CONTROL EQUIPMENT:

Intermediate & Production Hole – 10,000 Psig BOP schematic diagrams attached.

4. CASING PROGRAM:

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Collapse (psi) a	Burst (psi) b	Tensile (1K lbs) c
Conductor	26"	0 – ±90'	20"						
Surface	17 ½"	0' – 1,150'	13 3/8"	54.5#	J-55	BTC	1130/2.1	2730/3.0	909/2.5
Intermediate	12 ¼"	0 – 4,950'	9-5/8"	40.0#	L-80	BTC	3,090/1.5	5,750/1.2	947/2.1
Production	8 ½"	0 – 4,900'	7"	29#	P-110	BTC	8,530/1.3	11,220/2.0	955/2.1
Production	8 ½"	4,900 – 8,260'	7"	32#	HCP-110	BTC	11,890/1.9	12,460/2.0	955/2.1
Production	6"	7,760 – 11,658'	4-1/2"	13.5#	P-110	BTC	10,680/1.3	12,410/2.0	338/2.1

Surface based on full evacuation: a=9.0 ppg fluid on backside, b=9.0 ppg inside, & c=9.0 ppf fluid + 100K overpull.

Intermediate based on full evacuation: a=9.0 ppg fluid on backside, b=9.0 ppg inside, & c=9.0 ppf fluid + 100K overpull.

Production based on full evacuation: a=16.5 ppg fluid on backside, b=16.5 ppg inside, & c=16.5 ppf fluid + 100K overpull

All casing will be new or inspected.

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GRAND COUNTY, UTAH

5. Float Equipment:**Surface Hole Procedure (0' - 1150'±)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface. (23 total)**Intermediate Hole Procedure (0' - 4,950±)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of joints. #2 and #3 then every 3rd joint to surface. (33 total)**Intermediate Hole Procedure (4,950' - 8,260)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1 each joint from 8,260' to 7,300, 1 every 2nd joint back to 4,900'. (123 total)**Production Hole Procedure (0' - TD):**

Float shoe, 1 joint casing, float collar and balance of casing to surface. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint. 1 per joint in the lateral (length TBD) and 2 per joint in the curve to liner top. (Approximately 100)

6. MUD PROGRAM

Interval	Mud Type	Mud Wt.	PV / YP	OWR
0' - 1,000'	Air Mist	---	---	---
1,150' - 4,950'	Air Mist/Aerated Water	---	---	---
4,950' - TD	Oil Based Mud	13.5-16.5 ppg	22-32 / 12-22	+/-90:10

Intermediate & Production Hole Procedure (4,180' - TD): Anticipated mud weight 13.5 – 16.5 ppg depending on actual wellbore conditions encountered while drilling.

An oil based mud (OBM) system will be used to prevent fluid interaction with the salts and shales. LCM sweeps, pills, etc., will be used to prevent fluid loss. Adequate amounts of weighting material will be on hand as needed for well control.

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 1
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

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CANE CREEK 16-2-25-18H
SEC 16 / T25S / R18E, 885' FNL & 708' FEL
GRAND COUNTY, UTAH

- Fidelity E&P. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- Fidelity E&P requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- Fidelity E&P requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- Fidelity E&P requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- Fidelity E&P requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

8. EVALUATION PROGRAM:

Mud Logs: Mud log from 1,150' to TD.
Open-hole Logs: Triple-Combo, ECS, OBM FMI

9. CEMENT PROGRAM:

Surface Hole Procedure (Surface – 1,150'±):

Lead: 400 sks Type III Halliburton cement + 2% Sodium Silicate + 2% Gypsum. Yield = 2.47 ft³/sk @ 12.30 ppg
Tail: 212 sks Type III Halliburton cement + 2% Sodium Silicate + 2% Gypsum. Yield = 2.14 ft³/sk @ 14.20 ppg.
Top Out: As necessary with Class "G" cement with 2% CaCl₂, ¼#/sk LCM mixed at 15.6 ppg, 1.18 ft³/sk., 5.2 gps water.
Note: Cement volumes will be calculated to bring lead cement to surface.

Intermediate Hole #1 Procedure (Surface – 4,950'±):

Lead: 1155 sks 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum. Yield = 1.25 ft³/sk @ 14.40 ppg
Tail: 350 sks 66 pps Class G + 14 pps Pozz + 0.2% Sodium Silicate + 2 pps Gypsum. Yield = 1.25 ft³/sk @ 14.4 ppg
Top Out: As necessary with Class "G" cement with 2% CaCl₂, ¼#/sk LCM mixed at 15.6 ppg, 1.18 ft³/sk., 5.2 gps water.
Note: Cement volumes will be calculated to bring lead cement to surface. 30% excess is included. Actual excess will be calculated and applied to completely cement the well when casing is ran.

Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 16-2-25-18H
SEC 16 / T25S / R18E, 885' FNL & 708' FEL
GRAND COUNTY, UTAH

Intermediate Hole #2 Procedure (Surface – 8,260'±):

Lead: 360 sks Weighted Class G + 10% Silica Flour + 25% 100 Mesh sand. Yield = 1.24 ft³/sk @ 16.80 ppg.

Tail: 140 sks Class G cement + 75 pps Hematite. Yield = 1.2 ft³/sk @ ±18.00 ppg.

Note: The above number of sacks is based on gauge-hole calculation, 0% excess. Final cement volumes will be based upon gauge-hole plus 30% excess and the actual depth drilled to.

Production Hole Procedure (8,260 – TD):

Lead: No lead

Tail: 263 sks Class G cement + 75 pps Hematite. Yield = 1.2 ft³/sk @ ±18.00 ppg.

Note: The above number of sacks is based on gauge-hole calculation, 0% excess. Final cement volumes will be based upon gauge-hole plus 30% excess and the actual depth drilled to.

10. ABNORMAL CONDITIONS:

Surface Hole (Surface – 1,150'±):

Lost circulation.

Intermediate & Production Hole (1,070'± - TD):

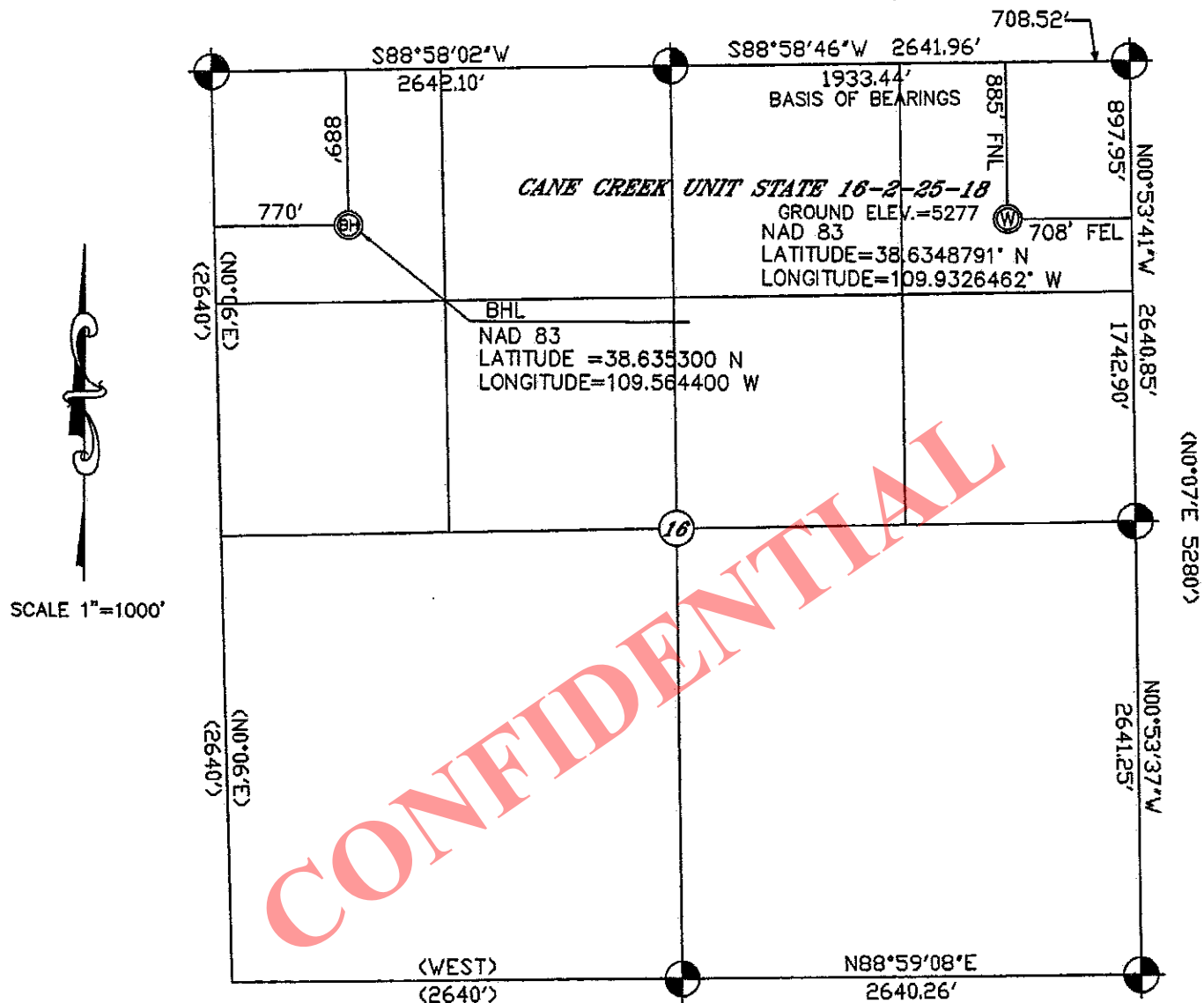
Lost circulation zones and over pressure in the production zone.

11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

SECTION 16, T 25 S, R 18 E, SLM

NOTES: DATA IN PARENTHESIS IS OF RECORD. ALL OTHER DATA IS SURVEYED DATA.

ELEVATIONS ARE BASED ON A G.P.S. 2 HOUR OPUS OBSERVATION.

LEGEND

- FOUND GOVERNMENT MONUMENT
- SET T-POST WITH LATH AT PROPOSED WELL LOCATION
- BOTTOM HOLE LOCATION

KEOGH LAND SURVEYING

45 EAST CENTER STREET

MOAB, UTAH, 84532

A SURVEY OF
CANE CREEK UNIT
16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM,
 GRAND COUNTY, UTAH

PREPARED FOR

FIDELITY EXPLORATION & PRODUCTION CO.

DATE: 12-30-13

DRAWN BY: KBC

CHECKED BY: KBC

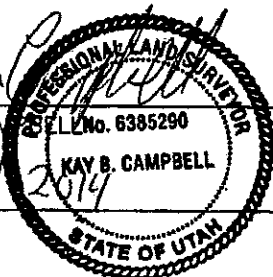
SCALE: 1"=1000'

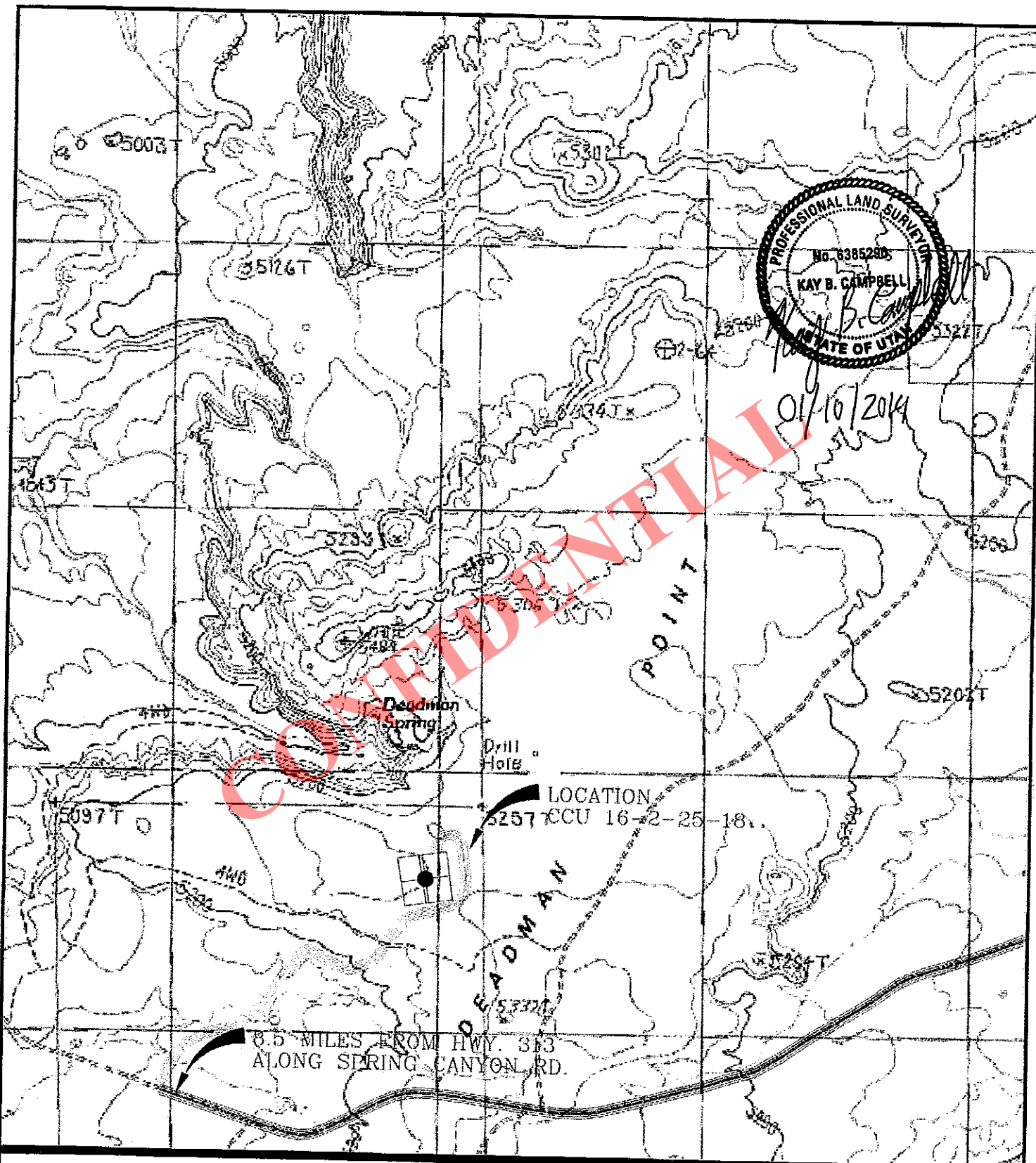
F.B.#

16-1 PLAT.DWG

KAY B. CAMPBELL

DATE





LEGEND

- PROPOSED WELL
- PROPOSED ACCESS TO SUBJECT WELL
- ROAD TO OTHER WELLS
- EXISTING ROAD TO BE IMPROVED
- EXISTING ROAD

TOPOGRAPHIC MAP "A"

DATE: 12-13-13

SCALE: 1"=2500'

DRAWN BY: KBC

REVISED:

SURVEYED 12-11-13

FIDELITY EXPLORATION & PRODUCTION CO.

PROPOSED ACCESS TO

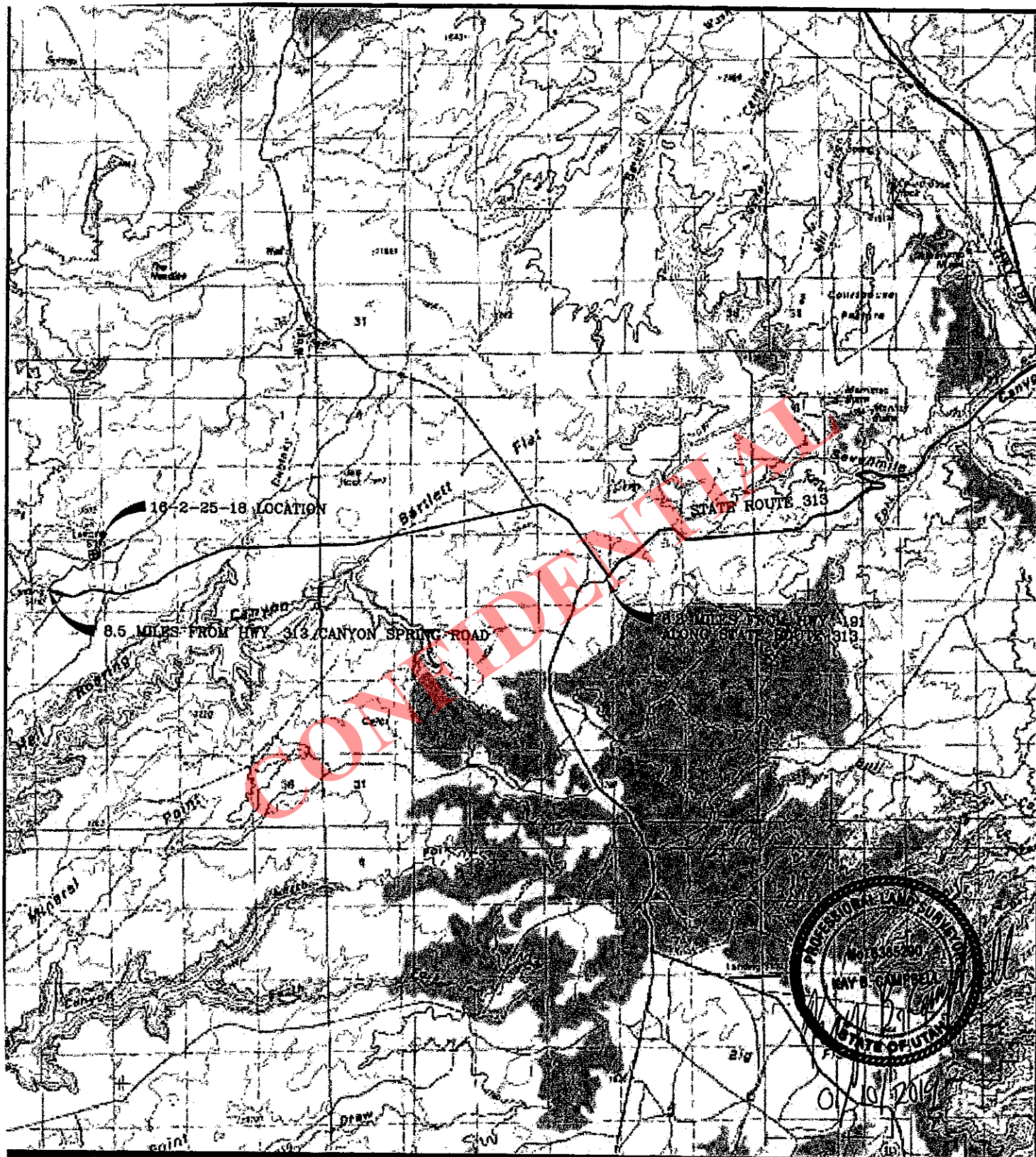
CANE CREEK UNIT 16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH

KEOGH LAND SURVEYING

45 EAST CENTER STREET

MOAB, UTAH, 84530



LEGEND

- PROPOSED WELL
- PROPOSED ACCESS TO SUBJECT WELL
- ROAD TO OTHER WELLS
- EXISTING ROAD TO BE IMPROVED
- EXISTING ROAD

TOPOGRAPHIC MAP "B"

DATE: 12-13-13

SCALE: 1:10000

SURVEYED 12-11-13

DRAWN BY: KBC

REVISED:

FIDELITY EXPLORATION & PRODUCTION CO.

PROPOSED ACCESS TO

CANE CREEK UNIT 16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH

KEOGH LAND SURVEYING

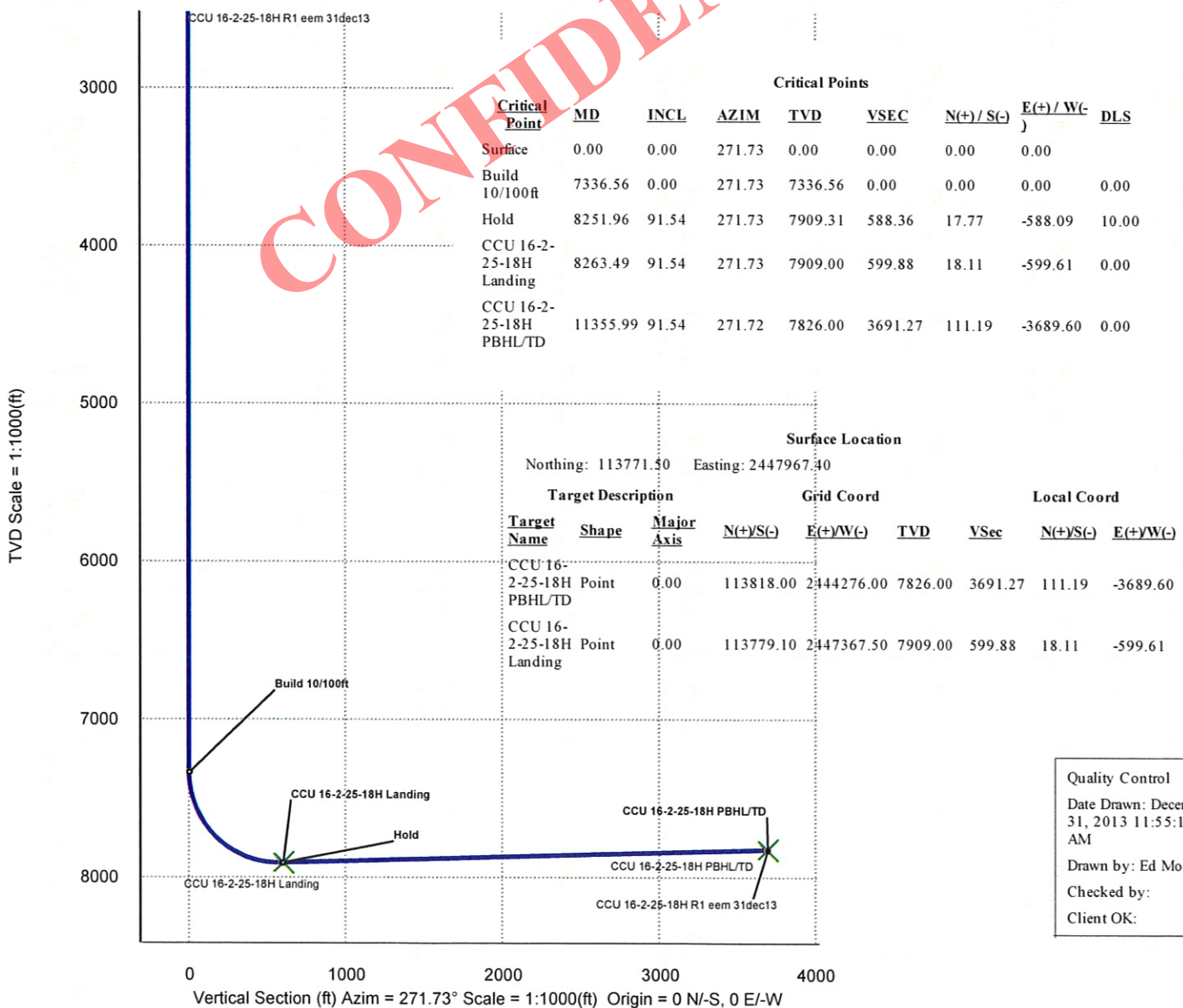
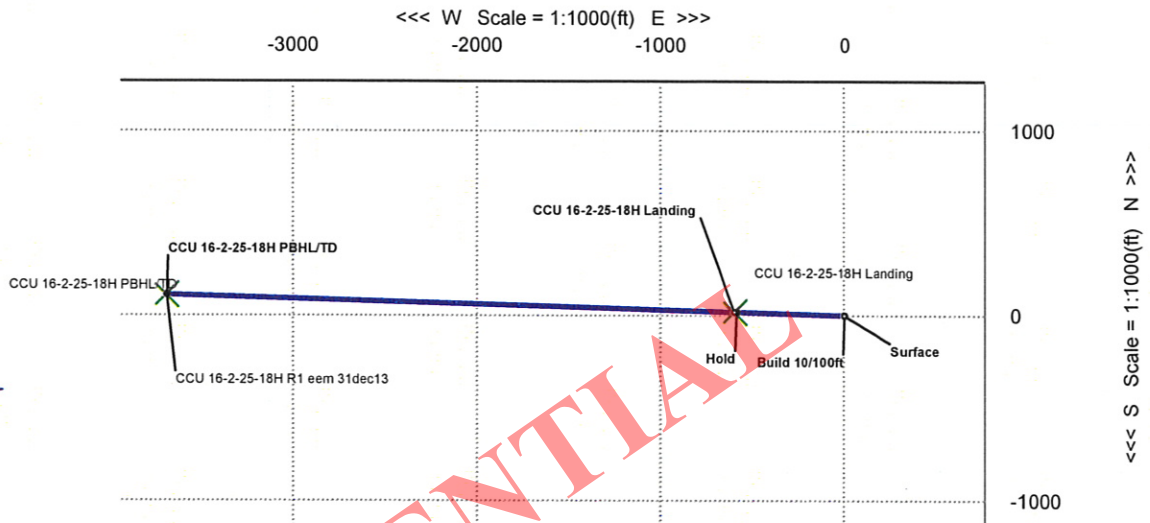
45 EAST CENTER STREET

MOAB, UTAH, 84532

WELL		CCU 16-2-25-18H		FIELD		UT, Grand County (NAD 27 CZ)		STRUCTURE		Fidelity (CCU 16-2-25-18H)	
Magnetic Parameters				Surface Location				Miscellaneous			
Model: BGGM 2013		Dip: 64.602°	Date: November 22, 2013	Lat: N 38 38 5.639		NAD27 Utah State Plane, Central Zone, US Feet		Plot: CCU 16-2-25-18H		TVD Ref: RKB(5300ft above Mean Sea Level)	
Mag Dec: 10.817°		FS: 51193.2nT		Lon: W 109 55 55.079		North: 113771.50 RUS		Scale Conv: 1.004°		Date: November 22, 2013	
						East: 2447967.40 RUS		Scale Fact: 1.00011804			
								Plan: CCU 16-2-25-18H R1 eem 31dec13			

Proposal

True North
 Tot Corr (M->T
 10.8170°)
 Mag Dec (10.817°)
 Grid Conv (1.004°)



Quality Control
 Date Drawn: December 31, 2013 11:55:11 AM
 Drawn by: Ed Moore
 Checked by:
 Client OK:



CCU 16-2-25-18H R1 eem 31dec13 Proposal Geodetic Report

(Non-Def Plan)

Report Date: December 31, 2013 - 11:47 AM
 Client: Fidelity
 Field: UT, Grand County (NAD 27 CZ)
 Structure / Slot: Fidelity (CCU 16-2-25-18H) / CCU 16-2-25-18H
 Well: CCU 16-2-25-18H
 Borehole: Original Hole
 UWI / API#: Unknown / Unknown
 Survey Name: CCU 16-2-25-18H R1 eem 31dec13
 Survey Date: November 22, 2013
 Tort / AHD / DDI / ERD Ratio: 91.551' / 3691.272 ft / 5.686 / 0.467
 Coordinate Reference System: NAD27 Utah State Plane, Central Zone, US Feet
 Location Lat / Long: N 38° 38' 5.63919", W 109° 55' 55.07866"
 Location Grid N/E Y/X: N 113771.500 RUS, E 2447967.400 RUS
 CRS Grid Convergence Angle: 1.0044 °
 Grid Scale Factor: 1.00011604

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 271.726 ° (True North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 5300.000 ft above Mean Sea Level
 Seabed / Ground Elevation: 5277.000 ft above Mean Sea Level
 Magnetic Declination: 10.817 °
 Total Gravity Field Strength: 998.8639mgn (9.80665 Based)
 Total Magnetic Field Strength: 51193.163 nT
 Magnetic Dip Angle: 64.602 °
 Declination Date: November 22, 2013
 Magnetic Declination Model: BGGM 2013
 North Reference: True North
 Grid Convergence Used: 0.0000 °
 Total Corr Mag North->True North: 10.8170 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Surface	0.00	0.00	271.73	0.00	0.00	0.00	0.00	N/A	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	100.00	0.00	271.73	100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	200.00	0.00	271.73	200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	300.00	0.00	271.73	300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	400.00	0.00	271.73	400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	500.00	0.00	271.73	500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	600.00	0.00	271.73	600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	700.00	0.00	271.73	700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	800.00	0.00	271.73	800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	900.00	0.00	271.73	900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1000.00	0.00	271.73	1000.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1100.00	0.00	271.73	1100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1200.00	0.00	271.73	1200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1300.00	0.00	271.73	1300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1400.00	0.00	271.73	1400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1500.00	0.00	271.73	1500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1600.00	0.00	271.73	1600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1700.00	0.00	271.73	1700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1800.00	0.00	271.73	1800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	1900.00	0.00	271.73	1900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
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	2100.00	0.00	271.73	2100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2200.00	0.00	271.73	2200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2300.00	0.00	271.73	2300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2400.00	0.00	271.73	2400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2500.00	0.00	271.73	2500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2600.00	0.00	271.73	2600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2700.00	0.00	271.73	2700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2800.00	0.00	271.73	2800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	2900.00	0.00	271.73	2900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3000.00	0.00	271.73	3000.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3100.00	0.00	271.73	3100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3200.00	0.00	271.73	3200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3300.00	0.00	271.73	3300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3400.00	0.00	271.73	3400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3500.00	0.00	271.73	3500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3600.00	0.00	271.73	3600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3700.00	0.00	271.73	3700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3800.00	0.00	271.73	3800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	3900.00	0.00	271.73	3900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4000.00	0.00	271.73	4000.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4100.00	0.00	271.73	4100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4200.00	0.00	271.73	4200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4300.00	0.00	271.73	4300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4400.00	0.00	271.73	4400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4500.00	0.00	271.73	4500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4600.00	0.00	271.73	4600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4700.00	0.00	271.73	4700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4800.00	0.00	271.73	4800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	4900.00	0.00	271.73	4900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5000.00	0.00	271.73	5000.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5100.00	0.00	271.73	5100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5200.00	0.00	271.73	5200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5300.00	0.00	271.73	5300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5400.00	0.00	271.73	5400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5500.00	0.00	271.73	5500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5600.00	0.00	271.73	5600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5700.00	0.00	271.73	5700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5800.00	0.00	271.73	5800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	5900.00	0.00	271.73	5900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6000.00	0.00	271.73	6000.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6100.00	0.00	271.73	6100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6200.00	0.00	271.73	6200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6300.00	0.00	271.73	6300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6400.00	0.00	271.73	6400.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6500.00	0.00	271.73	6500.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6600.00	0.00	271.73	6600.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6700.00	0.00	271.73	6700.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6800.00	0.00	271.73	6800.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	6900.00	0.00	271.73	6900.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	7000.00	0.00	271.73	7000.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	7100.00	0.00	271.73	7100.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	7200.00	0.00	271.73	7200.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	7300.00	0.00	271.73	7300.00	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
Build 10/100ft	7336.56	0.00	271.73	7336.56	0.00	0.00	0.00	0.00	113771.50	2447967.40	N 38 38 5.64	W 109 55 55.08
	7400.00	6.34	271.73	7399.87	3.51	0.11	-3.51	10.00	113771.54	2447963.89	N 38 38 5.64	W 109 55 55.12
	7500.00	16.34	271.73	7497.79	23.15	0.70	-23.14	10.00	113771.79	2447944.25	N 38 38 5.65	W 109 55 55.37
	7600.00	26.34	271.73	7590.82	59.50	1.80	-59.48	10.00	113772.25	2447907.89	N 38 38 5.66	W 109 55 55.83
	7700.00	36.34	271.73	7676.11	111.46	3.37	-111.41	10.00	113772.91	2447855.94	N 38 38 5.67	W 109 55 56.48
	7800.00	46.34	271.73	7751.09	177.43	5.36	-177.35	10.00	113773.75	2447789.96	N 38 38 5.69	W 109 55 57.31
	7900.00	56.34	271.73	7813.48	255.42	7.71	-255.31	10.00	113774.74	2447711.97	N 38 38 5.72	W 109 55 58.30
	8000.00	66.34	271.73	7861.37	343.06	10.36	-342.91	10.00	113775.85	2447624.33	N 38 38 5.74	W 109 55 59.40
	8100.00	76.34	271.73	7893.32	437.69	13.22	-437.49	10.00	113777.05	2447529.70	N 38 38 5.77	W 109 56 0.59
	8200.00	86.34	271.73	7908.35	536.42	16.20	-536.18	10.00	113778.30	2447430.96	N 38 38 5.80	W 109 56 1.84
Hold	8251.96	91.54	271.73	7909.31	588.36	17.77	-588.09	10.00	113778.95	2447379.02	N 38 38 5.81	W 109 56 2.49
CCU 16-2-25-18H Landing	8263.49	91.54	271.73	7909.00	599.88	18.11	-599.61	0.00	113779.10	2447367.50	N 38 38 5.82	W 109 56 2.63
	8300.00	91.54	271.73	7908.02	636.38	19.22	-636.09	0.00	113779.56	2447331.00	N 38 38 5.83	W 109 56 3.09
	8400.00	91.54	271.73	7905.33	736.34	22.23	-736.01	0.00	113780.83	2447231.03	N 38 38 5.86	W 109 56 4.35
	8500.00	91.54	271.73	7902.64	836.31	25.25	-835.93	0.00	113782.09	2447131.06	N 38 38 5.89	W 109 56 5.61
	8600.00	91.54	271.73	7899.96	936.27	28.27	-935.84	0.00	113783.36	2447031.10	N 38 38 5.92	W 109 56 6.87
	8700.00	91.54	271.73	7897.27	1036.24	31.28	-1035.76	0.00	113784.62	2446931.13	N 38 38 5.95	W 109 56 8.13
	8800.00	91.54	271.73	7894.58	1136.20	34.30	-1135.68	0.00	113785.89	2446831.16	N 38 38 5.98	W 109 56 9.39
	8900.00	91.54	271.73	7891.90	1236.16	37.31	-1235.60	0.00	113787.15	2446731.20	N 38 38 6.01	W 109 56 10.65
	9000.00	91.54	271.73	7889.21	1336.13	40.33	-1335.52	0.00	113788.41	2446631.23	N 38 38 6.04	W 109 56 11.91
	9100.00	91.54	271.73	7886.53	1436.09	43.34	-1435.44	0.00	113789.67	2446531.26	N 38 38 6.07	W 109 56 13.17
	9200.00	91.54	271.73	7883.84	1536.05	46.36	-1535.36	0.00	113790.94	2446431.29	N 38 38 6.10	W 109 56 14.43
	9300.00	91.54	271.73	7881.16	1636.02	49.37	-1635.27	0.00	113792.20	2446331.33	N 38 38 6.13	W 109 56 15.69
	9400.00	91.54	271.73	7878.47	1735.98	52.38	-1735.19	0.00	113793.46	2446231.36	N 38 38 6.16	W 109 56 16.95
	9500.00	91.54	271.73	7875.79	1835.95	55.39	-1835.11	0.00	113794.72	2446131.39	N 38 38 6.19	W 109 56 18.20
	9600.00	91.54	271.73	7873.10	1935.91	58.40	-1935.03	0.00	113795.98	2446031.42	N 38 38 6.22	W 109 56 19.46
	9700.00	91.54	271.73	7870.42	2035.87	61.41	-2034.95	0.00	113797.24	2445931.46	N 38 38 6.25	W 109 56 20.72
	9800.00	91.54	271.73	7867.73	2135.84	64.42	-2134.87	0.00	113798.49	2445831.49	N 38 38 6.28	W 109 56 21.98
	9900.00	91.54	271.73	7865.05	2235.80	67.43	-2234.79	0.00	113799.75	2445731.52	N 38 38 6.30	W 109 56 23.24
	10000.00	91.54	271.72	7862.37	2335.77	70.44	-2334.70	0.00	113801.01	2445631.55	N 38 38 6.33	W 109 56 24.50
	10100.00	91.54	271.72	7859.68	2435.73	73.45	-2434.62	0.00	113802.27	2445531.59	N 38 38 6.36	W 109 56 25.76
	10200.00	91.54	271.72	7857.00	2535.69	76.46	-2534.54	0.00	113803.52	2445431.62	N 38 38 6.39	W 109 56 27.02
	10300.00	91.54	271.72	7854.32	2635.66	79.47	-2634.46	0.00	113804.78	2445331.65	N 38 38 6.42	W 109 56 28.28
	10400.00	91.54	271.72	7851.63	2735.62	82.47	-2734.38	0.00	113806.03	2445231.68	N 38 38 6.45	W 109 56 29.54
	10500.00	91.54	271.72	7848.95	2835.59	85.48	-2834.30	0.00	113807.29	2445131.72	N 38 38 6.48	W 109 56 30.80
	10600.00	91.54	271.72	7846.27	2935.55	88.49	-2934.22	0.00	113808.54	2445031.75	N 38 38 6.51	W 109 56 32.06
	10700.00	91.54	271.72	7843.59	3035.51	91.49	-3034.14	0.00	113809.79	2444931.78	N 38 38 6.54	W 109 56 33.31
	10800.00	91.54	271.72	7840.91	3135.48	94.50	-3134.05	0.00	113811.05	2444831.81	N 38 38 6.57	W 109 56 34.57
	10900.00	91.54	271.72	7838.22	3235.44	97.50	-3233.97	0.00	113812.30	2444731.85	N 38 38 6.60	W 109 56 35.83
	11000.00	91.54	271.72	7835.54	3335.41	100.50	-3333.89	0.00	113813.55	2444631.88	N 38 38 6.63	W 109 56 37.09
	11100.00	91.54	271.72	7832.86	3435.37	103.51	-3433.81	0.00	113814.80	2444531.91	N 38 38 6.66	W 109 56 38.35
	11200.00	91.54	271.72	7830.18	3535.33	106.51	-3533.73	0.00	113816.05	2444431.94	N 38 38 6.69	W 109 56 39.61
	11300.00	91.54	271.72	7827.50	3635.30	109.51	-3633.65	0.00	113817.30	2444331.98	N 38 38 6.72	W 109 56 40.87
CCU 16-2-25-18H PBHLTD	11355.99	91.54	271.72	7826.00	3691.27	111.19	-3689.60	0.00	113818.00	2444276.00	N 38 38 6.74	W 109 56 41.58

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	23.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Hole / CCU 16-2-25-18H R1 eem 31dec13
	23.000	11355.993	1/100.000	30.000	30.000	SLB_MWD-STD	Original Hole / CCU 16-2-25-18H R1 eem 31dec13



SURFACE USE PLAN

Name of Operator Fidelity Exploration & Production Company
Address: 1700 Lincoln Street, Suite 2800
Denver, CO 80203
Well Location: **CCU 16-2-25-18**
885' FNL & 708' FEL,
NENE, Section 16, T25S, R18E
Grand County, UT

The proposed CCU 16-2-25-18 well site will be located on surface and minerals owned by the State of Utah and managed by the School and Institutional Trust Lands Administration (SITLA). Fidelity does not anticipate any additional disturbance beyond the access road and original well pad dimensions. However, any additional construction work will be accomplished in coordination with the State and a Sundry Notice will be submitted to the State prior to construction of any new surface disturbance activity on State surface not specified in this document.

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating any additional construction activities. The State of Utah Authorized Officer will be notified at least 48 hours prior to beginning drilling and/or additional facilities construction for scheduling of a preconstruction meeting.

1. Location of Existing Roads:

- a. The well pad is located approximately 15 miles west of Moab, Utah.
- b. Directions to the location from Moab, Utah are as follows:

Proceed northwest on Highway 191 for 11.2 miles. Turn left onto Highway 313 and proceed southwest 8.3 miles. Turn right on Canyon Spring Road and proceed northwest for 8.5 miles. Turn right (north) onto pad access road and location. For location of access roads, see Map A & B.

All roads are maintained by the Grand County Road Department or Utah State Highway Department. Any required improvements to the unnamed County Road will be in coordination with and with permission from the Grand County Road Department.

- c. All existing roads will be maintained and kept in good repair during all phases of operation.

- d. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

2. New or Reconstructed Access Roads:

- a. Approximately 1.15 miles of new access road will be constructed for the drilling of this well
- b. Surface disturbance and vehicular travel will be limited to the approved location access road.
- c. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

API Number	Unit lease	QTR		SEC	TWP	RNG	Company	Field Name	Status
43-019-31331	Kane Springs Fed 10-1	NW	SE	10	25	18	Fidelity	Hell Roaring	SI
43-019-31341	Kane Springs 16-1	SE	SW	16	25	18	Fidelity	Wild Cat	active

4. Location of Existing and/or Proposed Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Juniper Green or Beetle Green to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- d. A tank battery will be constructed on this well site; it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.

- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A pipeline corridor has been considered for this well and will be applied for once production is achieved.

5. Location and Type of Water Supply:

- a. The water supply for construction, drilling and operations will be provided under a direct purchase agreement with the City of Moab municipal water supply.
- b. No water pipelines will be laid for this well.
- c. No water well will be drilled for this well.
- d. Drilling water for this will be hauled on the road(s) shown.
- e. Should additional water sources be pursued they will be properly permitted through the State of Utah – Division of Water Rights.

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.
- b. No camps or airstrips are proposed with this application.

8. Well Site Layout:

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. The existing access to the well pad will be from the west.
- c. The pad and road designs are consistent with BLM specifications.
- d. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

- e. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a discontinuous windrow on the side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss, sterilization and contamination.
- f. Pits will remain fenced until site cleanup.
- g. The blooie line will be located at least 100 feet from the well head.
- h. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

9. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

- a. Multiple wells are planned for the CCU 2-1-25-18 location. Upon drilling of the final well for this pad, interim site reclamation will be accomplished for portions of the site not required for the continued operation of the wells.
- b. Upon final well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the nylon reinforced plastic liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.
- c. Following BLM published Best Management Practices interim reclamation will be completed following completion of the final well to reestablish vegetation, reduce dust and erosion, and complement the visual resources of the area.
 - 1. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
 - 2. The area outside of the rig anchors and other disturbed areas not needed for the operation of the wells will be re-contoured to blend with the surrounding area and reseeded with the following native grass seeds:

<i>Species of Seed</i>	<i>Broadcast Application Rate (lbs/ac)</i>	<i>App. Rate PLS (lbs/ac)</i>
Blue Gramma	5	3
Galleta	2	2
Indian Ricegrass	3	2
Bottlebrush Squirreltail	1	1
Total: 11		Total: 8

- 3. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.

- d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office.
 - e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded as described above.
 - f. A final abandonment notice will be submitted to the State when the reclamation activities (as presented in this document) are complete and new vegetation is established. Should there be any deviation from these planned reclamation activities, the surface owner will be notified and a Sundry Notice will be submitted to the State for approval of the new closure and reclamation activities.
10. Surface and Mineral Ownership:
- a. Surface Ownership – State of Utah.
 - b. Mineral Ownership – State of Utah.
11. Other Information:

Company Representatives:

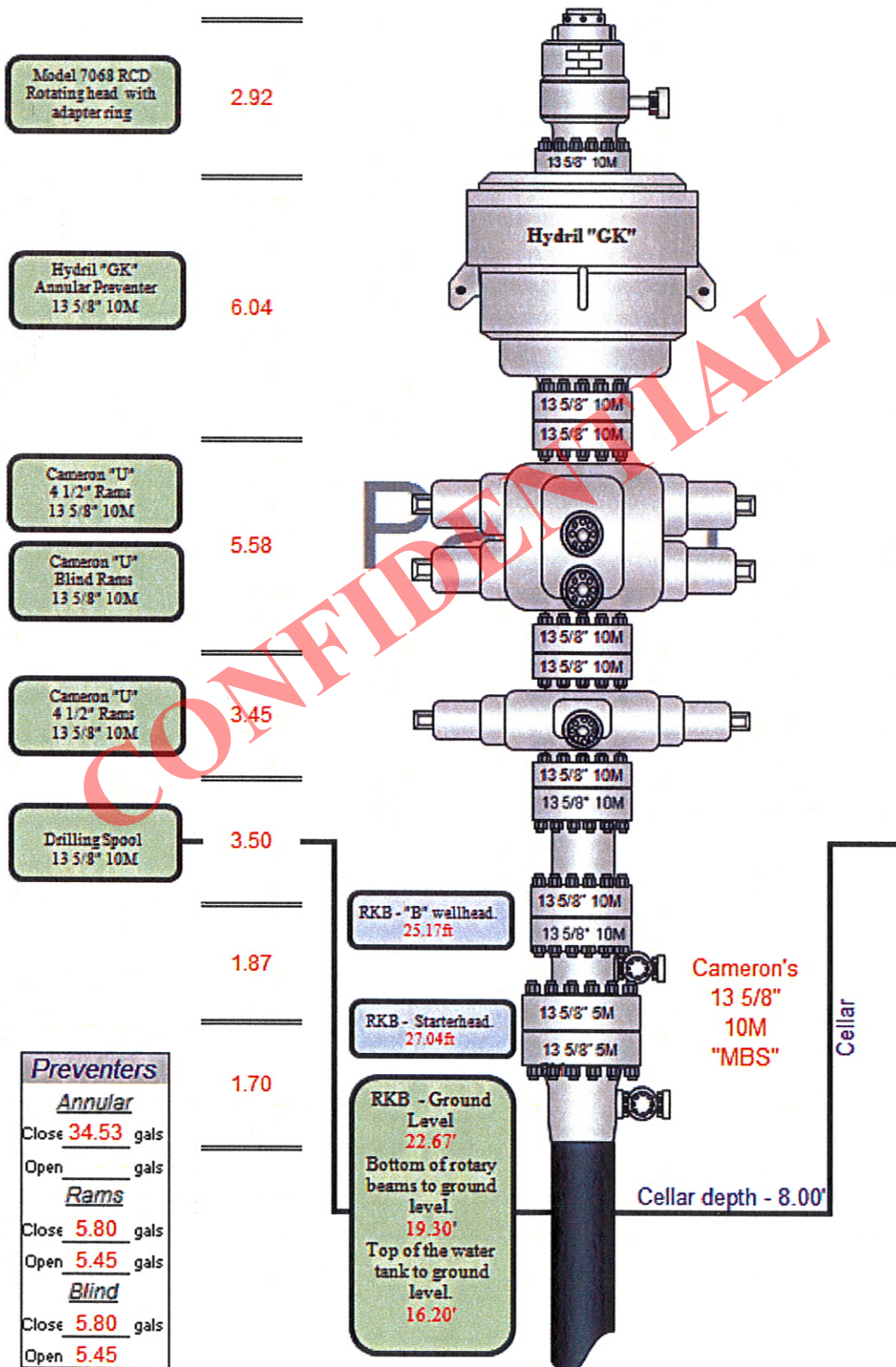
Bruce Houtchens
Drilling and Completion Manager
1700 Lincoln St. Suite 2800
Denver, CO 80203
(713) 351-1950-Direct line
(281) 217-6452 Cell
Bruce.houtchens@fidelityepco.com

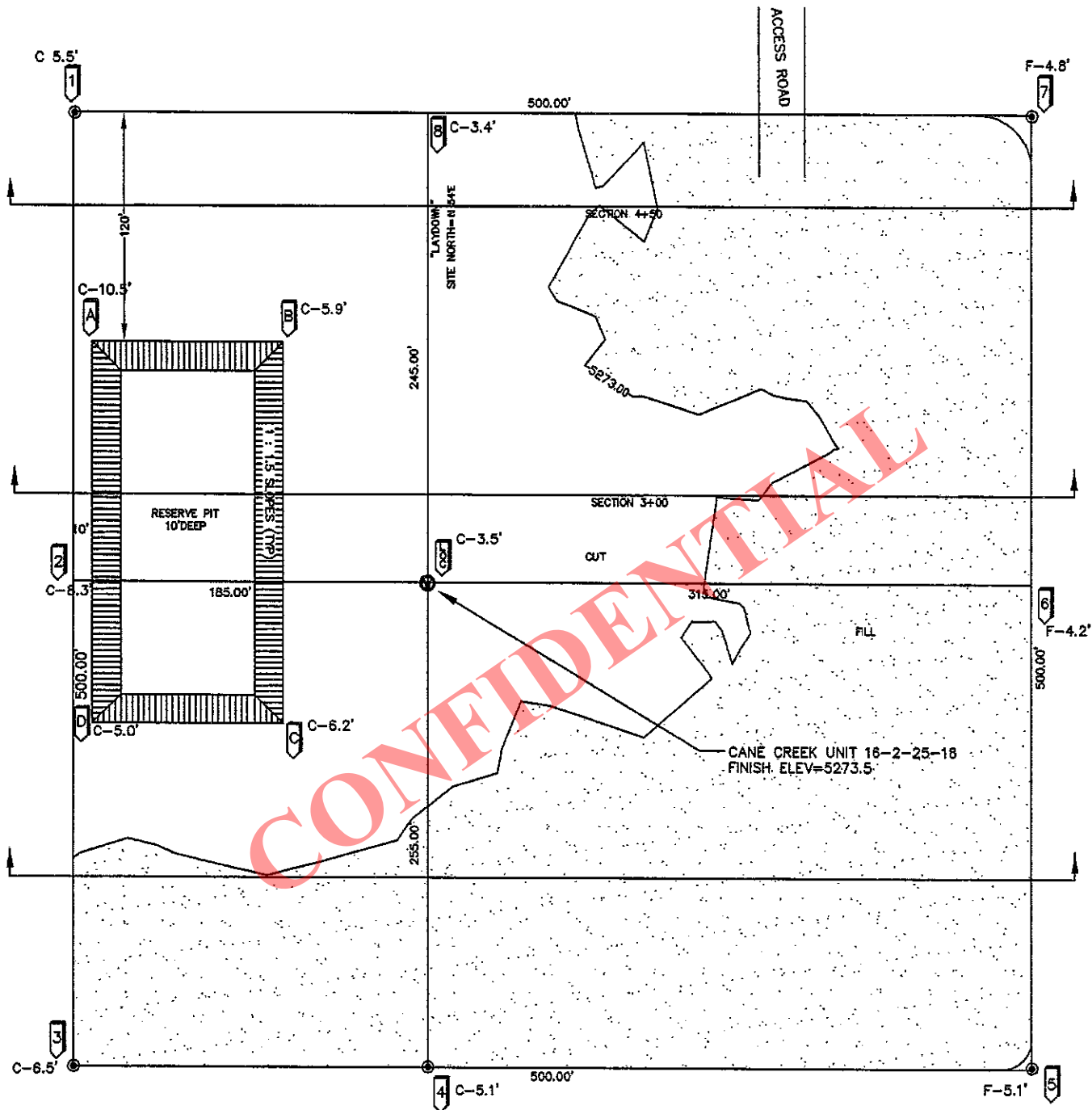
Will Alexander
Sr. Drilling Engineer
1700 Lincoln St. Suite 2800
Denver, CO 80203
(720) 917-3025-Direct line
(303) 819-5461 Cell
William.alexander@fidelityepco.com

Joy Gardner – Sr. Engineering Tech
Fidelity Exploration & Production Company
1700 Lincoln St. Suite 2800
Denver, CO, 80203
(720) 956-5763 - Direct line
Joy.gardner@fidelityepco.com

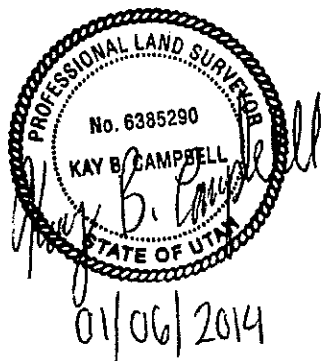
Fidelity Exploration & Production Company Eight Point Plan

CANE CREEK 16-2-25-18H
SEC 16 / T25S / R18E, 885' FNL & 708' FEL
GRAND COUNTY, UTAH





SCALE: 1"=80'



ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE=5277.0
FINISHED GRADE ELEVATION AT LOCATION STAKE =5273.5

TOTAL CUT =24897 CUBIC YARDS
TOTAL FILL =17530 CUBIC YARDS

NET CUT =7367 CUBIC YARDS

KEOGH LAND SURVEYING

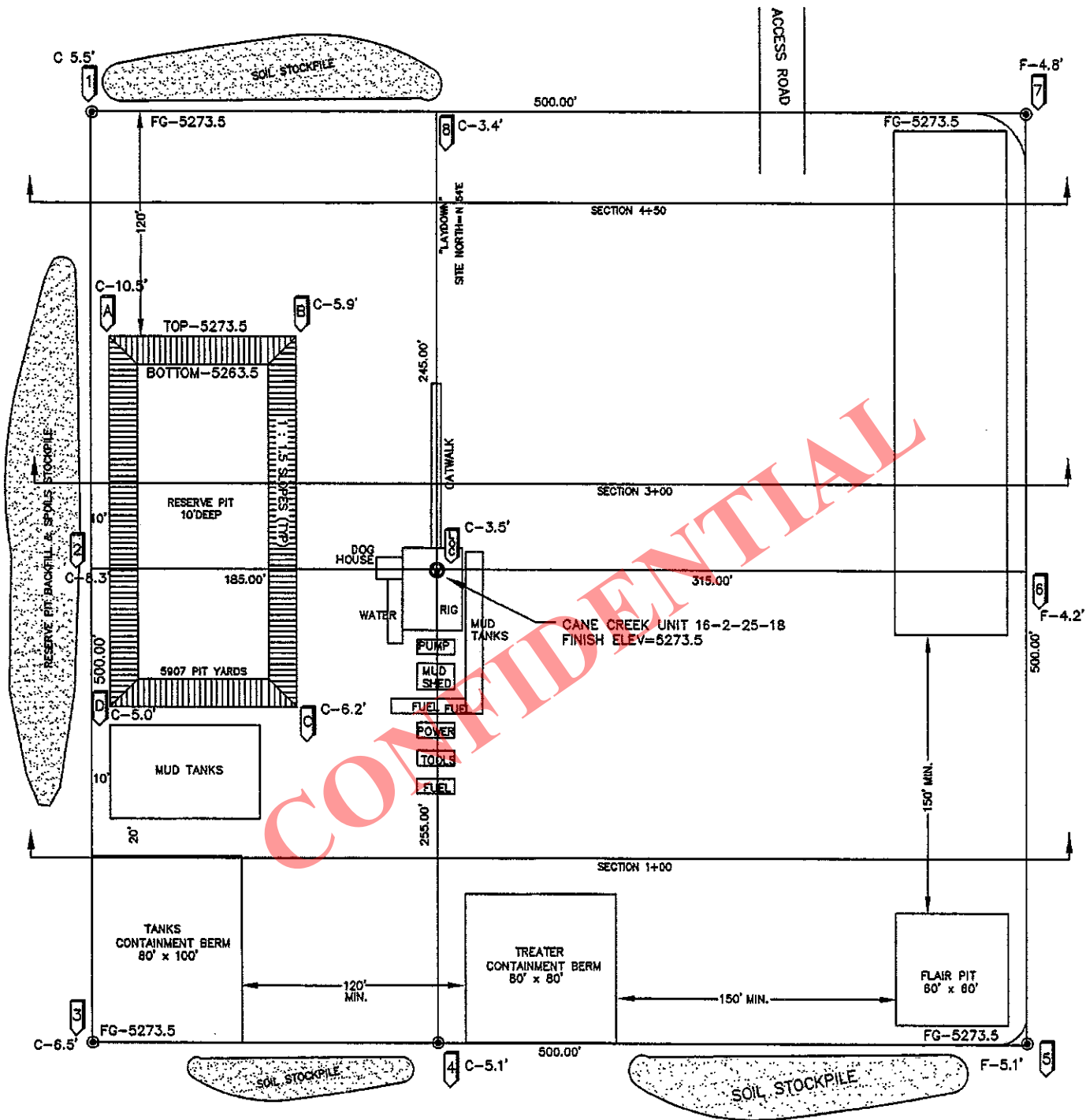
45 EAST CENTER STREET

MOAB, UTAH, 84532

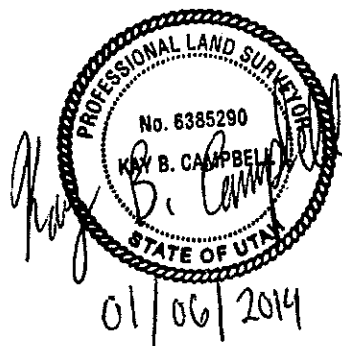
LOCATION LAYOUT FOR
CANE CREEK UNIT 16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH

PREPARED FOR
FIDELITY EXPLORATION & PRODUCTION CO.



SCALE: 1"=80'



ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE=5277.0
FINISHED GRADE ELEVATION AT LOCATION STAKE =5273.5

TOTAL CUT =24897 CUBIC YARDS
TOTAL FILL =17530 CUBIC YARDS

NET CUT =7367 CUBIC YARDS

KEOGH LAND SURVEYING

45 EAST CENTER STREET

MOAB, UTAH, 84532

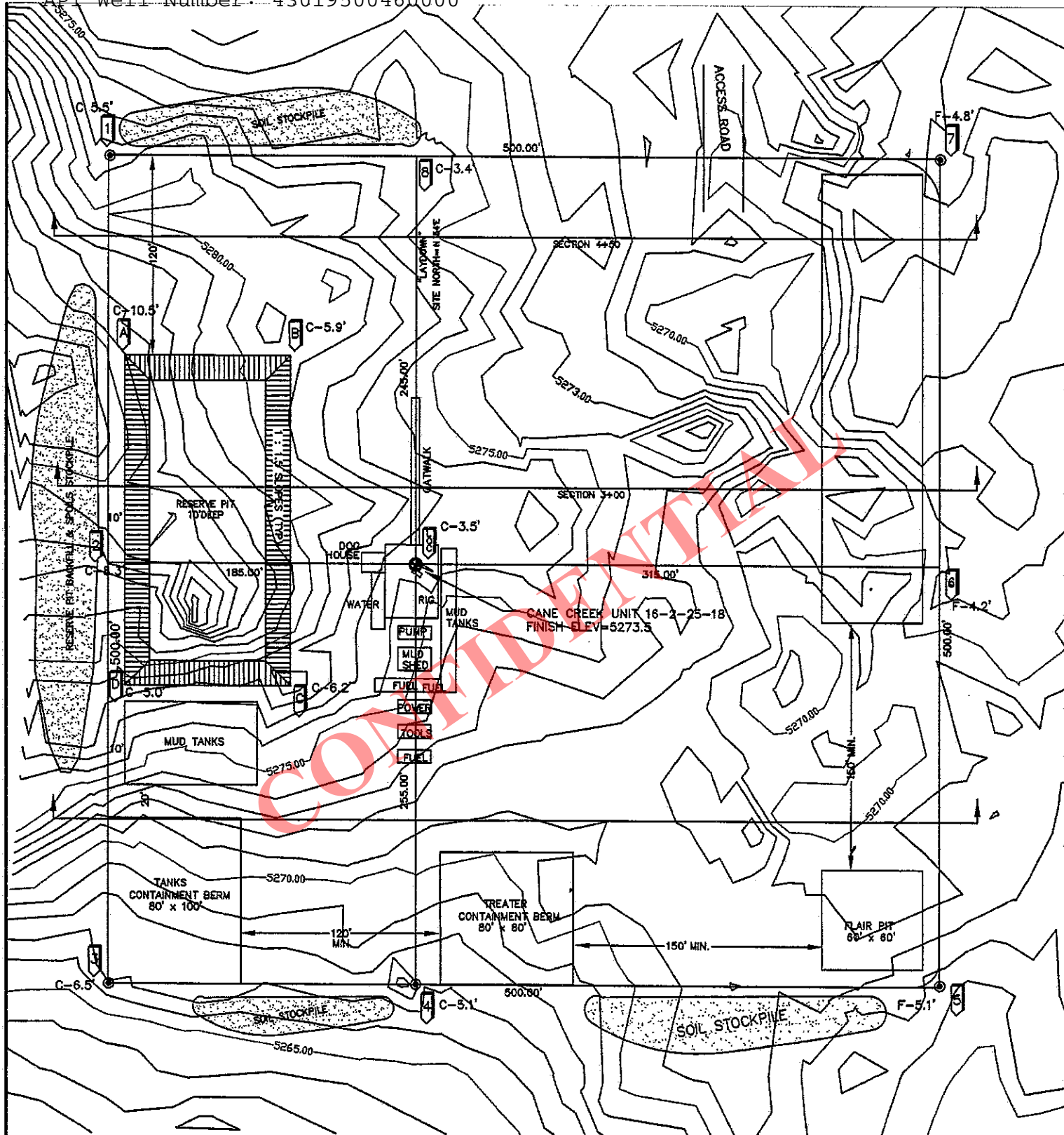
LOCATION LAYOUT FOR

CANE CREEK UNIT 16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH

PREPARED FOR

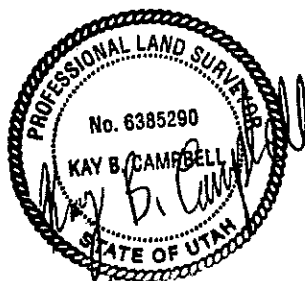
FIDELITY EXPLORATION & PRODUCTION CO.



ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE=5277.0
FINISHED GRADE ELEVATION AT LOCATION STAKE =5273.5

TOTAL CUT =24897 CUBIC YARDS
TOTAL FILL =17530 CUBIC YARDS

NET CUT =7367 CUBIC YARDS



01/06/2014

SCALE: 1"=80'

KEOGH LAND SURVEYING

45 EAST CENTER STREET

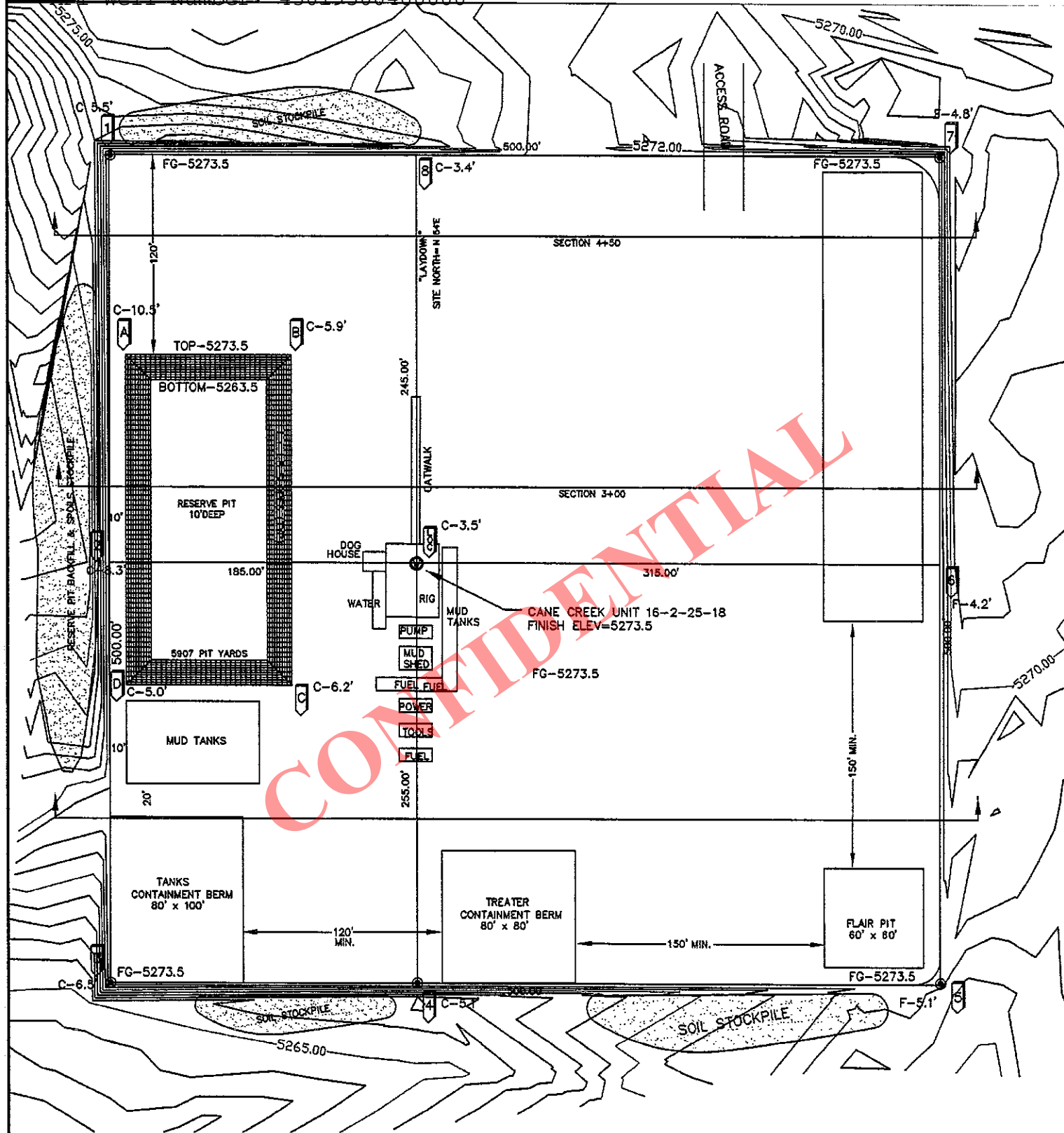
MOAB, UTAH, 84532

LOCATION LAYOUT FOR
CANE CREEK UNIT 16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH

PREPARED FOR

FIDELITY EXPLORATION & PRODUCTION CO.



ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE=5277.0
FINISHED GRADE ELEVATION AT LOCATION STAKE =5273.5

TOTAL CUT =24897 CUBIC YARDS
TOTAL FILL =17530 CUBIC YARDS

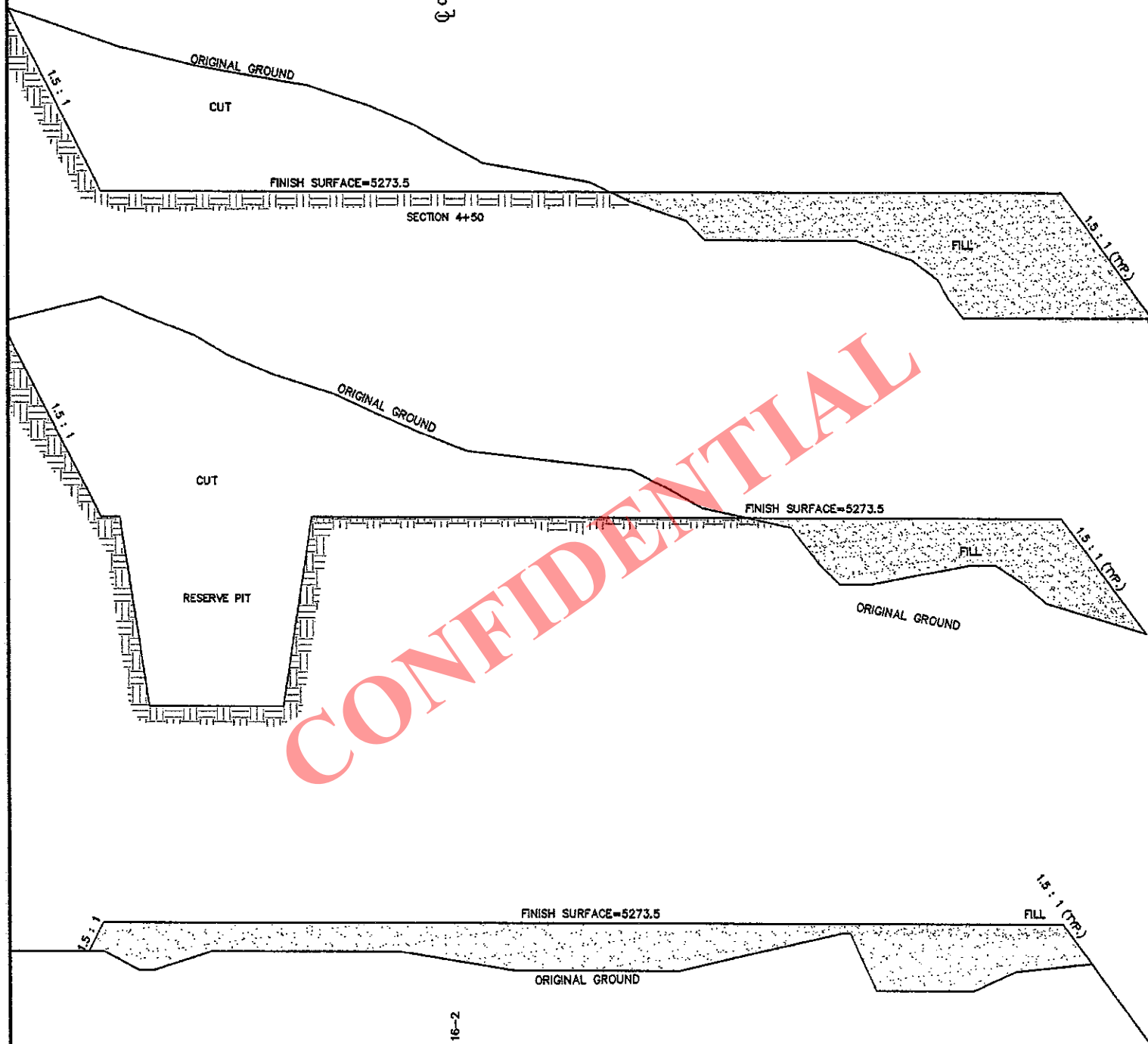
NET CUT =7367 CUBIC YARDS

SCALE: 1"=80'

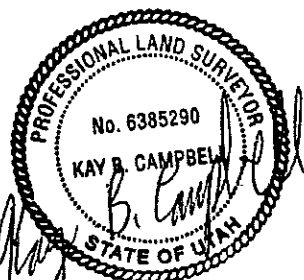


KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532
LOCATION LAYOUT FOR
CANE CREEK UNIT 16-2-25-18
WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH
PREPARED FOR
FIDELITY EXPLORATION & PRODUCTION CO.

COU STATE 16-2



COU STATE 16-2



01/06/2014

ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE=5277.0
 FINISHED GRADE ELEVATION AT LOCATION STAKE =5273.5

TOTAL CUT =24897 CUBIC YARDS
 TOTAL FILL =17530 CUBIC YARDS

NET CUT =7367 CUBIC YARDS

KEOGH LAND SURVEYING

45 EAST CENTER STREET

MOAB, UTAH, 84532

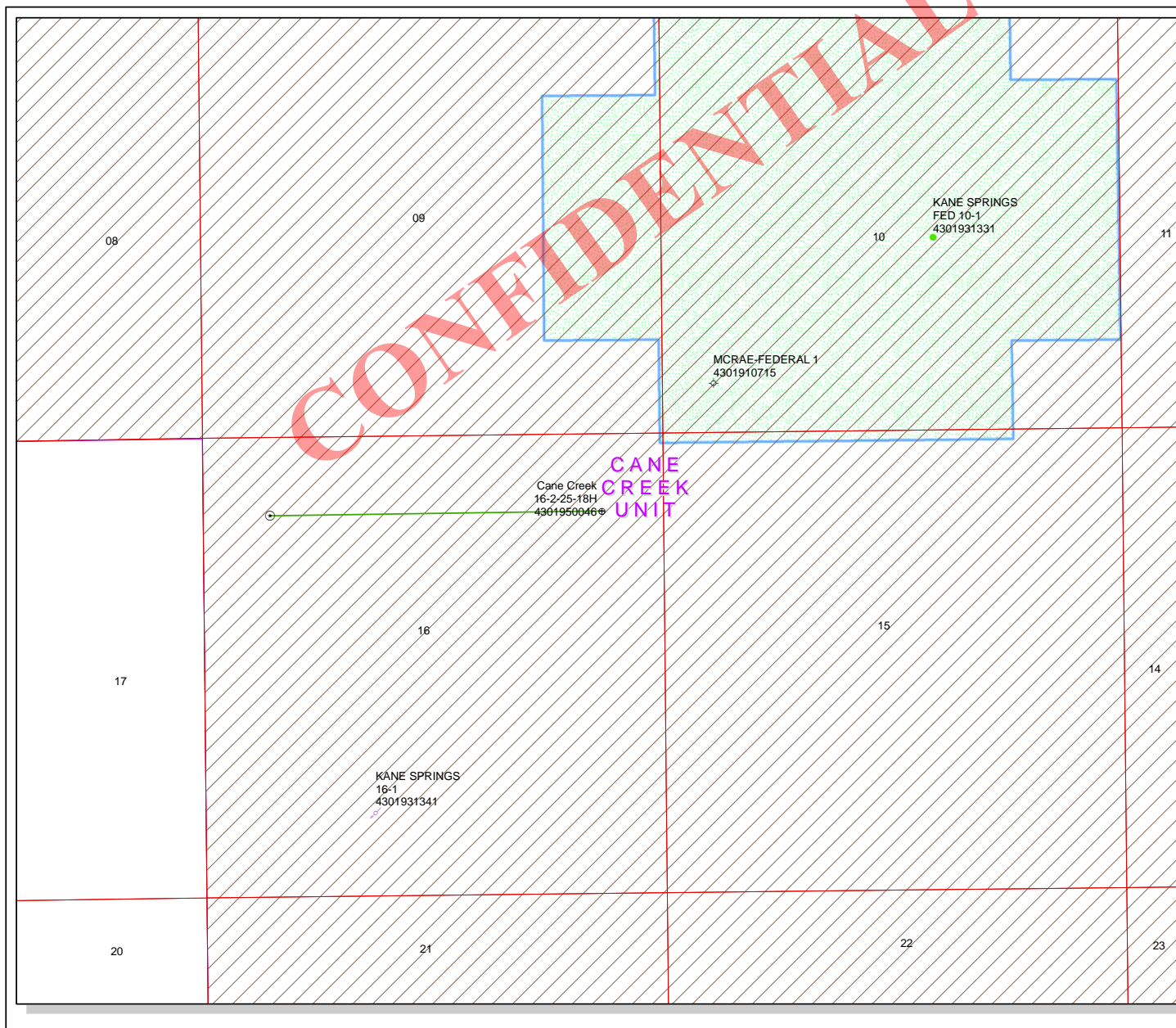
LOCATION LAYOUT FOR

CANE CREEK UNIT 16-2-25-18

WITHIN SECTION 16, T 25 S, R 18 E, SLM, GRAND COUNTY, UTAH

PREPARED FOR

FIDELITY EXPLORATION & PRODUCTION CO.



API Number: 4301950046

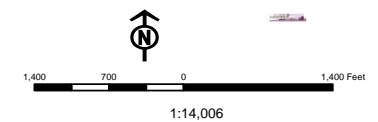
Well Name: Cane Creek 16-2-25-18H

Township: T25.0S Range: R18.0E Section: 16 Meridian: S

Operator: FIDELITY E&P COMPANY

Map Prepared: 2/6/2014
Map Produced by Diana Mason

Wells Query		Units	
Status		STATUS	
APD - Approved Permit		ACTIVE	
DRL - Spudded (Drilling Commenced)		EXPLORATORY	
GIW - Gas Injection		GAS STORAGE	
GS - Gas Storage		NF PP OIL	
LOC - New Location		NF SECONDARY	
OPS - Operation Suspended		PI OIL	
PA - Plugged Abandoned		PP GAS	
PGW - Producing Gas Well		PP GEOTHERML	
PQW - Producing Oil Well		PP OIL	
SGW - Shut-in Gas Well		SECONDARY	
SOW - Shut-in Oil Well		TERMINATED	
TA - Temp. Abandoned			
TW - Test Well		Fields	
WDW - Water Disposal		STATUS	
WW - Water Injection Well		Unknown	
WSW - Water Supply Well		ABANDONED	
		ACTIVE	
		COMBINED	
		INACTIVE	
		STORAGE	
		TERMINATED	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101

IN REPLY REFER TO:
3160
(UT-922)

February 3, 2014

Memorandum

To: Assistant Field Office Manager Resources,
Moab Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Cane Creek Unit,
Grand and San Juan Counties, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2014 within the Cane Creek Unit, Grand and San Juan Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Cane Creek)		
43-019-50046	Cane Creek 16-2-25-18H	Sec 16 T25S R18E 0885 FNL 0708 FEL BHL Sec 16 T25S R18E 0889 FNL 0770 FWL

This office has no objection to permitting the well at this time.

bcc: File - Cane Creek Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:2-3-14



Diana Mason <dianawhitney@utah.gov>

Well Approval

Jeff Conley <jconley@utah.gov>

Wed, Mar 26, 2014 at 3:32 PM

To: Bradley Hill <bradhill@utah.gov>, Diana Mason <dianawhitney@utah.gov>

Cc: stephanie.masters@fidelityepco.com

Hello,

The following well has been approved by SITLA including arch and paleo, with the direction that a paleo visit be conducted after construction of access road and pad; but before reserve pit is built.

(4301950046) Cane Creek 16-2-25-18H

Thanks,

Jeff Conley
SITLA Resource Specialist
jconley@utah.gov
801-538-5157

CONFIDENTIAL

RECEIVED: March 28, 2014

Well Name	FIDELITY E&P COMPANY Cane Creek 16-2-25-18H 43019500460000			
String	Surf	I1	Prod	Prod
Casing Size(in)	13.375	9.625	7.000	4.500
Setting Depth (TVD)	1150	4950	7909	7818
Previous Shoe Setting Depth (TVD)	0	1150	4950	7909
Max Mud Weight (ppg)	9.0	9.0	16.5	16.5
BOPE Proposed (psi)	500	10000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	6850			16.9

Calculations	Surf String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	538		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	400	YES	air/mist
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	285	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	285	NO	OK
Required Casing/BOPE Test Pressure=		1150	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

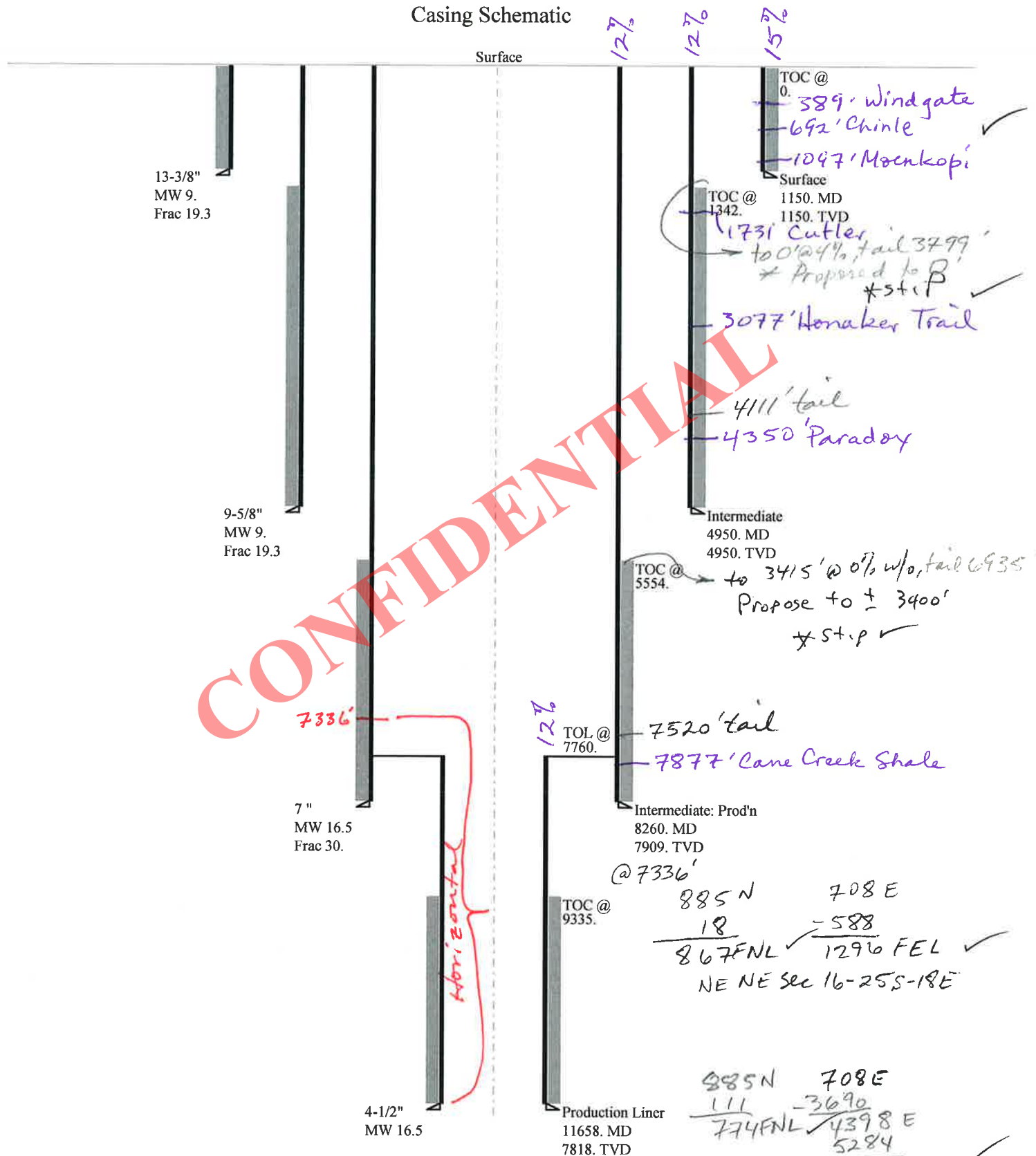
Calculations	I1 String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	2347		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1723	YES	air/mist,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1228	YES	Ok
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1481	NO	OK
Required Casing/BOPE Test Pressure=		4025	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1150	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	6786		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5837	YES	10M BOPE w/rotating head, 5M annular, blind rams, flex ram
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5046	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6135	NO	OK
Required Casing/BOPE Test Pressure=		7854	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		4950	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6708		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5770	YES	10M BOPE w/rotating head, 5M annular, blind rams, flex ram
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4988	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6728	YES	
Required Casing/BOPE Test Pressure=		7818	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		7909	psi *Assumes 1psi/ft frac gradient	

43019500440000 Cane Creek 16-2-25-18H

Casing Schematic



Well name:	43019500440000 Cane Creek 16-2-25-18H		
Operator:	FIDELITY E&P COMPANY		
String type:	Surface	Project ID:	43-019-50046
Location:	GRAND COUNTY		

Design parameters:**Collapse**

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 90 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 1,012 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,150 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 997 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 4,650 ft
Next mud weight: 9.000 ppg
Next setting BHP: 2,174 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,150 ft
Injection pressure: 1,150 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1150	13.375	54.50	J-55	Buttress	1150	1150	12.49	15271
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	538	1130	2.102	1150	2730	2.37	62.7	853.2	13.61 B

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 20, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1150 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43019500440000 Cane Creek 16-2-25-18H	
Operator:	FIDELITY E&P COMPANY	
String type:	Intermediate	Project ID: 43-019-50046
Location:	GRAND COUNTY	

Design parameters:**Collapse**

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 143 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,342 ft

Burst

Max anticipated surface pressure: 3,861 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,950 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 4,287 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 7,909 ft
Next mud weight: 16.500 ppg
Next setting BHP: 6,779 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 4,950 ft
Injection pressure: 4,950 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	4950	9.625	40.00	L-80	Buttress	4950	4950	8.75	75794
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2314	3090	1.335	4950	5750	1.16	198	916.3	4.63 B

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 20, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 4950 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43019500440000 Cane Creek 16-2-25-18H	
Operator:	FIDELITY E&P COMPANY	
String type:	Intermediate: Prod'n	Project ID: 43-019-50046
Location:	GRAND COUNTY	

Design parameters:**Collapse**

Mud weight: 16.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 185 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 5,554 ft

Burst

Max anticipated surface pressure: 5,039 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,779 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 6,049 ft

Directional Info - Build & Hold

Kick-off point 7337 ft
Departure at shoe: 596 ft
Maximum dogleg: 10 °/100ft
Inclination at shoe: 91.54 °

Production liner info:

Liner setting depth: 7,909 ft
Pore pressure equivalent: 16.500 ppg
Assumed BHP at TD: 6,779 psi

Estimated cost: 103,767 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2	4900	7	29.00	P-110	Buttress	4900	4900	6.059	59215
1	3360	7	32.00	HCP-110	Buttress	7909	8260	6	44552

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	4200	8258	1.966	6117	11220	1.83	238.4	929.4	3.90 B
1	6779	10780	1.590	6779	11640	1.72	96.3	1024.9	10.64 B

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: March 20, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7909 ft, a mud weight of 16.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43019500440000 Cane Creek 16-2-25-18H		
Operator:	FIDELITY E&P COMPANY		
String type:	Production Liner		Project ID: 43-019-50046
Location:	GRAND	COUNTY	

Design parameters:**Collapse**

Mud weight: 16.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 183 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 9,335 ft

Burst

Max anticipated surface pressure: 4,981 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,701 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 7,881 ft

Liner top: 7,760 ft

Directional Info - Build & Hold

Kick-off point: 7337 ft
Departure at shoe: 3993 ft
Maximum dogleg: 10 °/100ft
Inclination at shoe: 91.54 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3858	4.5	13.50	P-110	Buttress	7818	11658	3.795	23146
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6701	10680	1.594	6721	12410	1.85	.9	421.9	99.99 B

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 20, 2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 7818 ft, a mud weight of 16.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator FIDELITY E&P COMPANY
Well Name Cane Creek 16-2-25-18H
API Number 43019500460000 **APD No** 9290 **Field/Unit** CANE CREEK
Location: 1/4,1/4 NENE **Sec** 16 **Tw** 25.0S **Rng** 18.0E 885 FNL 708 FEL
GPS Coord (UTM) **Surface Owner**

Participants

Bart Kettle-DOGM, Robby Edgel-UDWR, Jeff Conley-SITLA, Charlie Harrison-Harrison Oil Field Services, Dina Brown-Fidelity E&P Company, Lloyd-Fidelity E&P.

Regional/Local Setting & Topography

Proposed project site is located ~19 miles northwest of Moab Utah, in Grand County Utah. On a regional setting the proposed project is located in the Canyonlands Region of the Colorado Plateau. The Canyonlands Region is renowned for its red rock canyons and spectacular views. Tourism is a growing industry in the region. In close proximity to the proposed project site, Dead Horse State Park, Aches National Park and Canyonlands National Park are popular destinations along with the community of Moab Utah. On a local scale the proposed project site is located near Hell Roaring Canyon and Dubinky Point. Local points of interest include: Gemini Arch, Gemini Bridges, Arths Pasture, Seven mile Canyon, Long Canyon, Dead Horse Point, Horsetheif Point, Mineral Bottoms, Islands in the Sky, Hell Roaring Canyon, Courthouse Rock and Dubinky Point. Topography is typical of the Canyonlands Region: a series of large sandy mesa's abruptly falling off into steep canyons comprised of alternating layers of sandstone and shale. Climatic conditions within the region are arid, and vegetation is typically sparse. The proposed project site is located on a gentle slope consisting of sandy loam soils deposited on sandstone bedrock. Precipitation is considered a 8-10" precept zone. Soils are dominated by Eolian deposits and are predominantly unstable sands and sandy loams. Vegetation would be described as Pinion-Juniper Woodlands and black brush communities. Water drainage is to the west, entering Deadman Canyon .25 miles and the Green River within 6 miles. No perennial water sources where observed in close proximity to the project site.

Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.75	Width 500 Length 500	Onsite	NAVA

Ancillary Facilities N

Access road should enter the well pad between Corner #4 & Corner #5

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna**Flora**

Grass: Muhly spp., curly galleta, sand drop seed, needle and thread.

Forbs: Desert larkspur, annual mustard spp., canaigre, multiple unknown annuals.

Shrubs: Sand sage, Mormon tea, Shinnery oak, black brush, four wing salt brush.

Trees: Utah Juniper

Other: Harriman's yucca

Fauna: Mule deer, big horn sheep, coyote, kit fox, gray fox. Seasonal use by migrating birds such as sage sparrow, cassin finch, house finch, pinion jay, white crowned sparrow, gray crowned rosy finch, blue gray knat catcher, Bewick's wren, black throated sparrow, black capped chickadee, Brewers sparrow, bushtit, western kingbird, chipping sparrow, common nighthawk, Coppers hawk, sharp shin hawk, red tailed hawk, ruff legged hawk, golden eagle, turkey vulture, Downey wood pecker, juniper titmouse, northern shrike, mountain bluebird, mourning dove, pine siskin, sage thrasher, western blue bird, and western meadow lark. . Host of small rodents and reptiles possible such as: Black tailed rabbit, cottontail rabbit, woodrat spp, kangaroo rat spp., deer mouse, pinion mouse, rock squirrel, spotted skunk, and antelope squirrel.

Soil Type and Characteristics

Reddish orange sands and sandy loams.

Erosion Issues Y

Soils prone to wind water erosion.

Sedimentation Issues N**Site Stability Issues N**

Site appears suitable for proposed drilling program. Road base may be required on access road and well pad to prevent large dust pockets.

Drainage Diversion Required? N**Berm Required? Y**

Berm required around all equipment containing fluids.

Erosion Sedimentation Control Required? Y

Seeding should be completed outside of anchors within one year following well pad construction.

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit**Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)		20
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20

Fluid Type	Oil Base Mud Fluid	15
Drill Cuttings	Salt or Detrimental	10
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score	65	1 Sensitivity Level

Characteristics / Requirements

Proposed drilling system includes the use of a oil based mud drilling system to stabilize hole through Paradox salt zones. As such a reserve pit is being proposed along with a closed loop drilling system for oil based drilling mediums.

Proposed drilling program is anticipated to exceed 30 days. Due to prolonged drilling program pit liners shall be inspected weekly to assure integrity.

Reserve pit fluids at sites with comparable drilling programs within the Paradox formation have had TDS in excess of 50,000 mg/l. Additional reclamation steps may be required for materials high in chlorides. Precautions should be taken while drilling to assure salt or detrimental cuttings are not mixed with normal rock cuttings.

Surface formations are members of the Glen Canyon group and are capable of containing fresh water aquifers. Permeability of soils and underlying sandstones is medium to high. Pit liner of 24 ml for reserve pit shall be properly installed with bedding of sand or felt. Tanks and handling equipment containing oil based drilling materials should be underlain with a 20 mil synthetic liner as secondary containment.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 24 Pit Underlayment Required? Y

Other Observations / Comments

Access road is proposed as a 14' running surface with turnouts. Minimal construction will be completed until well is deemed capable of commercial production. Pit run will be placed at wash crossing and portions of road requiring maintenance during drilling operations. Due to cultural site in close proximity to proposed access road cultural supervision is required during construction.

DOGM noted significant concerns regarding reserve/cuttings pit lining, management and reclamation. Pit contents with TDS in excess of 50,000 mg/l are possible, as such additional stipulations and precautions will be required.

Top 6-12" of top soils should be saved and stockpile. All disturbed soils shall be seeded within 12 months of disturbance.

UDWR commented no raptor surveys have been conducted for surrounding sandstone outcrops. Given that suitable nesting habitat is readily available raptor surveys should be completed.

Bart Kettle
Evaluator

3/4/2014
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9290	43019500460000	LOCKED	OW	S	No
Operator	FIDELITY E&P COMPANY		Surface Owner-APD		
Well Name	Cane Creek 16-2-25-18H		Unit	CANE CREEK	
Field	CANE CREEK		Type of Work	DRILL	
Location	NENE 16 25S 18E S 885 FNL (UTM) 592897E 4276801N		708 FEL	GPS Coord	

Geologic Statement of Basis

Fidelity E&P Company proposes to drill the well to a total depth of 8,010' and plans to set surface casing from 0'-1,150'. The surface string will be drilled using an air mist. The proposed well would be spud in sandy soil that has been developed from the erosion of the Navajo Sandstone and the Kayenta formation, which is exposed at the surface at this location. The well location is approximately three miles from the axis of the Cane Creek Anticline. It is reasonable to expect fractures & joints that may result in zones of lost circulation during drilling. There are no underground water rights within one mile of the proposed location. It is unlikely that fresh water will be encountered, at this location, in the Wingate Aquifer. The proposed casing and cementing program should adequately protect any useable groundwater resources encountered during the drilling of this well.

Ammon McDonald
APD Evaluator

3/17/2014
Date / Time

Surface Statement of Basis

On-site evaluation conducted March 4, 2014. In attendance: Bart Kettle-DOGM, Robby Edgel-UDWR, Jeff Conley-SITLA, Charlie Harrison-Harrison Oil Field Services, Dina Brown-Fidelity E&P Company, Lloyd-Fidelity E&P.

Proposed project is located in an environmentally sensitive region. National Parks, slick rock trails, river rafting and scenic views attract thousands of tourist to the region annually. Due to awareness of mineral exploration in the area it is reasonable to expect scrutiny of drilling operations for proposed project. Operator instructed to monitor drilling operations and ROW activity closely. Problems should be addressed immediately. Steps to limit activity during peak tourist season, and hours of the day are recommended.

DOGM is requiring additional precautions for reserve pit and handling of salt laden and oil base mud cuttings. Slopes of pit walls should not exceed 2:1. Pits shall be lined as determined by site evaluation ranking. The geomembrane shall consist of 24 mil string reinforced LDPE or equivalent liner for reserve pit. The geomembrane liner should be composed of an impervious synthetic material resistant to hydrocarbons, salts and alkaline solutions.

Tanks and equipment handling or storing fluids will require 20 mil string reinforced geomembrane liner. Liner should be placed over prepared surface containing 12" berms and key trench to secure liner.

Blasting is anticipated for reserve pit, fractured rock should be properly bedded with sand or a felt liner. Liner edges should be secured. Liner should be protected from fluid force or mechanical damage at points of discharge or suction.

Due to anticipated prolonged drilling operations precautions should be taken to prevent punctures from drilling related activities. Weekly inspection of liner should be conducted and recorded. Surface water run off should not be allowed to enter pits.

While drilling three sides of pits should be fenced. Fencing should include reinforced corner braces, 36" woven net wire on the bottom and two strands of barbed wire on top spaced at 6" apart. Following completion of drilling activities pits will require fencing on the fourth side, removal of free standing oil and netting to prevent entry by water fowl.

Pits will require reclamation to be completed one year following the removal of drilling rig. Reclamation measures shall be submitted to DOGM for approval following analysis of pit contents.

Utah Division of Wildlife (UDWR) is requesting raptor surveys be completed. Known historic Coppers hawk nest occurred within a 1/2 mile of project site. If active closure recommendations are May 1-August 15 for Coppers hawk.

Access road should enter well pad between corner #4 & corner #5.

Bart Kettle
Onsite Evaluator

3/4/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	Weekly inspections of liners shall be conducted and documented until materials are removed, or reserve pit is reclaimed.
Pits	Fractured rock in reserve pit area or oil based mud handling areas shall be properly bedded.
Pits	The reserve pit shall be fenced upon completion of drilling operations. Netting will be required over pit if it contains hydrocarbons or RCRA-exempt hazardous substances.
Pits	A geomembrane liner with a minimum thickness of 20 mils shall be properly installed and maintained under tanks and equipment storing or handling oil based drilling fluids or salt laden cuttings. Geomembrane liner shall consist of a string reinforced impervious synthetic material, resistant to hydrocarbons, salts and alkaline solutions.
Pits	A representative sample of drill cuttings shall be collected and analyzed prior to disposal at approved facility.
Pits	A closed loop mud circulation system is required while using oil based drilling mediums.
Pits	Reserve pit liner shall be protected from fluid force or mechanical damage at points of discharge or suction.
Pits	The Division shall be consulted prior to reclamation of reserve pit and drill cuttings.
Surface	Access road and well pad shall have fresh water applied to control dust as needed.
Surface	Access road should enter well pad between corner #4 & corner #5.
Surface	Berm required around all equipment containing fluids.
Surface	Disturbed soils shall be seeded as part of interim reclamation within one year following construction of well pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/27/2014

API NO. ASSIGNED: 43019500460000

WELL NAME: Cane Creek 16-2-25-18H

OPERATOR: FIDELITY E&P COMPANY (N3155)

PHONE NUMBER: 307 675-4924

CONTACT: Stephanie Masters

PROPOSED LOCATION: NENE 16 250S 180E

Permit Tech Review: ☒

SURFACE: 0885 FNL 0708 FEL

Engineering Review: ☒

BOTTOM: 0889 FNL 0770 FWL

Geology Review: ☒

COUNTY: GRAND

LATITUDE: 38.63488

LONGITUDE: -109.93266

UTM SURF EASTINGS: 592897.00

NORTHINGS: 4276801.00

FIELD NAME: CANE CREEK

LEASE TYPE: 3 - State

LEASE NUMBER: ML44333

PROPOSED PRODUCING FORMATION(S): CANE CREEK

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE - 190017646/104891324☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: Municipal☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: CANE CREEK

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-2

Effective Date:

Siting:

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmadonald
12 - Cement Volume (3) - ddoucet
23 - Spacing - dmason
27 - Other - bhill

RECEIVED: April 02, 2014



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Cane Creek 16-2-25-18H

API Well Number: 43019500460000

Lease Number: ML44333

Surface Owner: STATE

Approval Date: 4/2/2014

Issued to:

FIDELITY E&P COMPANY, 1700 Lincoln Street Ste 2800, Denver, CO 80203

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2. The expected producing formation or pool is the CANE CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to ~3400' as indicated in the submitted drilling plan.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar

month

- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read 'J. Rogers', written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML44333
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: FIDELITY E&P COMPANY		7. UNIT or CA AGREEMENT NAME: CANE CREEK
3. ADDRESS OF OPERATOR: 1700 Lincoln Street Ste 2800 , Denver, CO, 80203		8. WELL NAME and NUMBER: CANE CREEK UNIT 16-2-25-18
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0885 FNL 0708 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 25.0S Range: 18.0E Meridian: S		9. API NUMBER: 43019500460000
PHONE NUMBER: 720 931-6459 Ext		9. FIELD and POOL or WILDCAT: CANE CREEK
COUNTY: GRAND		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/8/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Fidelity Exploration & Production Company requests permission to change the name of this well to: Cane Creek Unit 16-2-25-18.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 09, 2014		
NAME (PLEASE PRINT) Joy Gardner	PHONE NUMBER 720 956-5763	TITLE Sr. Engineering Tech
SIGNATURE N/A	DATE 4/8/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
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STATE: UTAH																																
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached project description.																																
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 30, 2014																																
NAME (PLEASE PRINT) Joy Gardner	PHONE NUMBER 720 956-5763	TITLE Sr. Engineering Tech																														
SIGNATURE N/A	DATE 4/15/2014																															

Dead Horse Lateral Natural Gas Gathering Lines

Project Description

Fidelity Exploration & Production Company (the Operator) proposes to construct, operate, maintain, and eventually decommission 19 gas gathering lines that would connect current and possibly future wells on 19 well pads in and near the Cane Creek Unit (CCU) to the Dead Horse Lateral (DHL) gas gathering pipeline, which is currently under construction. The produced natural gas would be transported through the DHL pipeline to an approved natural gas processing plant near Blue Hills Road that is also under construction. The natural gas would be compressed and processed for liquids recovery at the gas plant. The sales-grade gas would subsequently be delivered via the existing Greentown pipeline to the existing Northwest pipeline. The gathering lines would remain in operation as long as the Operator's producing wells supply sufficient gas to justify its use. The life of a productive well may last as long as 30 years.

In addition, the Operator proposes to upgrade one Class D road to provide alternate access to existing and future well locations currently being accessed via the Class B Mineral Point Road.

All applicable federal, state, and county regulations and Bureau of Land Management (BLM) conditions of approval would be adhered to during gathering line construction and operation. Construction operations would employ the principles contained in the BLM's *Hydraulic Considerations for Pipelines Crossing Stream Channels* (2007) and *Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition* (Gold Book) (2007). Cultural, paleontological, and biological resource inventories are in progress, and reports of the findings will be submitted to the BLM prior to the initiation of construction operations.

Design features, environmental protection measures, and safety procedures committed to by the Operator are listed at the end of this project description. Additional safety procedures that would be utilized as part of the DHL gathering system are contained in DOI-BLM-UT-Y010-2013-067-EA, Appendix D (BLM, 2013). If the project is approved, the Operator would utilize an independent 3rd-party compliance monitor to ensure that gathering line construction operations would be conducted in accordance with applicable conditions of approval.

Location and Access

Gathering Lines

Approximately 25 miles of gathering lines (132,056 feet) would be constructed across federal and State of Utah lands in Grand County, Utah, approximately 12 miles west of Moab. The

gathering line routes would be reached by traveling north from Moab along US Highway 191 until reaching State Highway (SH) 313. The gathering lines would tie into the DHL pipeline at various locations along SH 313 and the Dubinky Well Road (See attached maps). New roads would not be constructed to construct the gathering lines. Table 1 shows the lengths of the gathering line routes related to surface ownership. The gathering lines are named according to the name of the well pad from which they originate.

Table 1: Gathering Line Lengths and Land Ownership

Gathering Line	Location	Federal Surface Length (feet)	State Surface Length (feet)	Total
Cane Creek 1-1	T25S-R19E, Sections 1, 2	1,366	987	2,353
Cane Creek 2-1	T25S-R19E, Section 2	0	0	0
Cane Creek Unit 2-1-25-18	T25S-R18E, Section 2	0	1,697	1,697
Cane Creek Unit 7-1	T26S-R20E, Sections 7, 18	10,825 ¹	0	10,825 ¹
Cane Creek 8-1	T26S-R20E, Sections 8, 18	4,101	0	4,101
Cane Creek Unit 12-1	T25S-R19E, Section 11, 12	2,883	0	2,883
Cane Creek Unit 16-2	T24S-R18E, Sections 35, 36 T25S-R18E, Sections 2, 10, 11, 15, 16	10,493	19,937	30,430
Cane Creek Unit 17-1	T26S-R20E, 17, 18	7,660	0	7,660
Cane Creek Unit 18-1	T26S-R20E, Section 18	1,347	0	1,347
Cane Creek 24-1	T26S-R19E, Sections 13, 24	6,336	0	6,336
Cane Creek Unit 26-2	T25S-R19E, Sections 26, 27	9,602	0	9,602
Cane Creek Unit 28-2	T25S-R19E, Section 28	1,111	0	1,111
Cane Creek Unit 32-1-25-19	T25S-R19E, Section 32	0	2,557	2,557
Cane Creek 36-1-25-18	T25S-R18E, Section 36 T25S-R19E, Sections 28, 31, 32, 33	14,207	10,171	24,378
Cane Creek Unit 36-1	T25S-R19E, Section 36 T26S-R19E, Sections 1, 2	140	7,077	7,217
Kane Springs Federal 10-1	T25S-R18E, Section 10	5,509	0	5,509
Kane Springs 19-1A-ST	T26S-R19E, Section 24 T26S-R20E, Sections 19, 30	12,606	0	12,606
Kane Springs Federal 27-1	T25S-R19E, Section 27	34	0	34
Kane Springs Federal 25-19-34-1	T25S-R19E, Section 34	1,410	0	1,410
Total Length by Surface Owner		89,630	42,426	132,056

¹ Includes 2,274 feet within the DHL ROW

Through traffic in both directions would be maintained on SH 313 during construction operations. Through traffic may be temporarily stopped on the Class B Gemini Bridges Road near the intersection with the CCU 2-1 well pad access road to accommodate construction operations where the CCU 36-1 gathering line would cross the road. Gemini Bridges Road

would be closed in this area for approximately three hours total, but would be open at intervals within this time so that traffic could pass the construction area. An additional two-hour period would be needed to trench beneath Gemini Bridges Road and bury the pipeline beneath the road.

Appropriate controls would be in place to warn the public and control traffic while constructing a gathering line adjacent to a road or while constructing a trench across a road. Traffic cones and "construction zone" signs would be used to notify oncoming traffic of construction operations. Flagmen would be placed at either end of the work area if visibility is less than 100 yards. Installation of a gathering line along a Class D road may generally allow vehicles to proceed past construction operations.

Class D Road

The Operator proposes to upgrade an existing Class D road to that would provide access to its leases along Mineral Point Road and bypass Horsethief Campground. The Operator has drilled two wells that currently utilize the Mineral Point Road for access and may drill additional wells in the future that would otherwise utilize Mineral Point Road without the alternate route that the upgraded Class D road would provide. The Class D road is located north of Mineral Point Road and is located entirely on federal surface. It currently intersects Mineral Point Road approximately 1.5 miles west of Horsethief Campground to SH 313 near the CCU 28-2 well pad.

Table 2: Class D Road Upgrade Location and Length

Road Upgrade	Location	Length (feet)
Cane Creek 36-1-25-18	T25S-R19E, Sections 28, 33	7,597

Construction Schedule and Personnel Requirements

The Operator plans to initiate gathering line construction as soon as it receives regulatory approval but anticipates initiating construction in June 2014. Four to five months would be needed to construct all gathering lines. Each gathering line would require 1-2 weeks for construction, depending on its length and terrain considerations. Construction activities would generally occur during daylight hours. Pipeline integrity testing may be performed at night.

Procedures have been developed to ensure that gathering line installation occurs as quickly and safely as possible in a planned sequence of operations along the routes. Two or three construction crews may work simultaneously at different locations to meet the project schedule. Each installation crew would consist of five workers. One 5-person road boring crew would be responsible for the SH 313 crossings.

Gathering Line Design

The design, materials, construction, operation, maintenance, and termination practices of the pipeline would meet or exceed safe and proven engineering practices, industry standards, and would comply with all applicable requirements. These gathering lines have been designed and would be constructed to meet and exceed applicable industry standards, which include, but are not limited to: API 5L, API 6D, API 15 HR, ASTM D2517, ASME 31.8 and ANSI pipeline material standards .

The gathering lines would be installed above and below ground, depending on site conditions along the routes. Buried lines would be constructed of 4.5 or 6.5-inch (outside diameter) Fiberspar (or equivalent), or 8 or 12-inch steel. Aboveground line would be constructed of uncoated steel so that the outside surface would rust. The highest normal operating pressure on the gas gathering system would be 75 pounds per square inch (psi) gauge and would occur at the well site, where it would be limited by mechanical pressure relief valves on the upstream separation equipment. Maintenance operations may temporarily require the normal operating pressure to be exceeded. The pipe wall thickness would ensure sufficient structural integrity for the low-pressure system. Gas production from each well would be measured by an orifice meter. A well pad may require installation of more than one pipe in a trench. If so, these gathering lines would be positioned vertically within a single trench.

All gathering lines would be surveyed in place so that precise locations with respect to adjacent roads and buried depths can be ascertained. The as-built survey would be provided to the BLM at the completion of the project.

Construction Operations

Gathering Line Construction

Equipment needed to install the buried gathering lines would include flatbed trailers, trenching machines, mini-excavators, bulldozers, rotary jackhammers, offset booms, spoolers, cables, water trucks, and pickup trucks. Vehicle traffic during construction operations would include the transportation of materials and heavy equipment, workforce commuting, and daily operation of construction equipment. Installation equipment, pipe, and other construction materials would be hauled to the work site by flatbed semi-tractor trailers and stored temporarily on existing well pads. Pipe would be transported from well pads to strategic locations along a gathering line route within the construction corridor on a daily basis. Construction equipment may be left overnight within the construction corridor but would not be parked overnight on Class B roads. To minimize the introduction of noxious invasive species, the construction contractor would be required to have equipment arrive at construction sites in a clean condition, free of weeds and soil.

The gathering line routes have been located to avoid trees and shrubs as much as possible. Where dead trees are found within a 30-foot construction corridor, the trees would be transported to disturbed areas and mulched. The mulch would be spread over the disturbed areas.

All pipeline installation equipment would operate within a 30-foot construction corridor.

Aboveground Cross-Country Gathering Lines. Some gathering line routes would travel cross-country to minimize impacts to topography, soils, vegetation, and recreation and visual resources. Installing a gathering line aboveground on cross-country routes would prevent visual scarring by eliminating the need to remove the shrub and tree cover that would otherwise result from trenching. The ground surface would not be bladed. Vegetation would not be removed. Trees and cultural resource sites would be avoided.

Aboveground gathering line would be installed using one of two methods. The first method would utilize a cable that would be placed by hand along a cross-country segment of the route. Several sections of the pipe would be welded together on a well pad and attached to the end of the cable. A bulldozer would be stationed at the receiving end to pull the cable and position the welded pipe in place along the route. Pipe segments would be pre-welded on the well pad. Using this procedure, surface disturbance would result only from placing the cable by hand and by dragging the pipeline in place, affecting approximately five feet along the length of the cross-country segment.

Alternatively, pipe segments would be welded on a well pad and pulled along the cross-country route with the use of a single pass of a bulldozer. The ground surface would not be bladed, and trees would be avoided by the bulldozer. An approximate 15-foot drive route would be used by the bulldozer while pulling the gathering line in place.

Buried Gathering Lines adjacent to Roads. Where a gathering line would be buried parallel to a well access road or Class D road, the gathering line would generally be installed immediately adjacent to the 14-foot road running surface. Each gathering line would be installed at least 4 feet deep to ensure a minimum cover of 3 feet below the surface. The top of the trench would be approximately 12 inches in width. It may be necessary to consider installing a gathering line aboveground and adjacent to a Class D road where hard bedrock is extremely hard, in which case one of the two procedures described above would be utilized (cable pull or tractor pull).

Where a gathering line would be installed adjacent to a Class B road, the gathering line and aboveground infrastructure would be installed as far from the centerline of the Class B road as possible while generally remaining within the Class B road ROW. Alternatively, the gathering line would be installed adjacent to the running surface of the Class B road in a trench sufficiently deep to provide a minimum coverage of five feet. Installation of a gathering line at this depth

would allow road maintenance operations to be conducted safely and minimize surface disturbance away from the roadway.

Open trenching would be performed using a trencher, the size of which would be determined by site-specific terrain conditions, soil depth, and hardness of bedrock. Previous testing of a rock sample from the project area determined that most trenching operations would be performed with standard trenching equipment. Where operating on harder bedrock, a trencher may be equipped with a rock wheel. In areas where the rock surface is even harder, a rotary jackhammer may be used to create a trench. If absolutely necessary, bedrock may be blasted using small explosive charges and appropriate public safety measures would be taken.

A small trencher would be used to dig a trench where the terrain provides suitable safe access. Ideally, it would be used on the edge of the running surface of all Class D or access roads and as much as possible on Class B roads where terrain conditions are favorable. If trenching slightly off the road surface, this trencher would permit maximum flexibility in choosing the optimal route to avoid trees and large shrubs. An offset boom, operating on the road, would be used to place the pipe farther off the road running surface. Using the small trencher would not generally require the ground surface to be bladed or graded. The small trencher would use floatation tires with an approximate ground pressure of 20 psi. It would create an approximate 10-foot wide track with the trench centered beneath it. Topsoil and spoils would be mixed and placed on either side of the trench within the trencher tire tracks. Following installation of the pipe, the trench would be backfilled with the materials excavated from the trench using a V-plow equipped with skids so that the ground surface is not gouged. Another pass would compact the surface above the trench. An approximate 15-foot corridor would be affected along the gathering line route if a bulldozer is used.

A large trencher would be used where hard bedrock is encountered. The gathering line route may require grading and/or blading where the terrain is too rough for placement of the trencher. For trenches larger than 18 inches in width, spoils and topsoil would be temporarily placed in the 30-foot construction corridor in piles opposite the working side of the trench. Topsoil, as available, would be stored separately from the spoils and placed in piles adjacent to the spoil piles. After the pipe is lowered in the trench, spoils would be replaced in the trench and compacted. Extra spoil would be placed on top of the trench and spread. Topsoil would be redistributed on top of the spoils. Extra spoil materials may be used to camouflage the appearance of the surface-installed infrastructure from adjacent Class B roads and/or SH 313.

Road crossings would be performed either by open-trenching an unpaved road surface or by boring under the paved SH 313. Any Fiberspar gathering line that would be installed beneath a road would be protected with a steel sleeve. The BLM would be provided with a three-week notice regarding upcoming Class B road crossings. One week prior to the crossing, the Operator

would confer with the BLM to confirm the crossing schedule. At Class B road crossings, the public would be prevented from using the road for up to five hours while the road is being trenched and the pipe installed. If possible, the road would be intermittently re-opened for through public vehicle passage during this time. One mini-excavator would be used at each side of a Class B road crossing in a 30 by 30-foot area, which would be graded and bladed prior to trenching across the road. Topsoil would be stripped and temporarily stored in a small pile within the mini-staging areas. After installation of the pipe, the contours of the mini-staging areas would be restored and topsoil re-spread. Mulch would then be applied.

To avoid disrupting traffic, a horizontal directional drill (HDD) would be used to bore beneath SH 313. The depth of the trench beneath SH 313 would be increased per UDOT regulations. Using the HDD would require two approximate 100 by 100-foot temporary use areas on both sides of SH 313 where the bore would enter and exit the surface. Surface preparation would remove portions of the topsoil, which would be temporarily stored within the disturbance area; however, large shrubs would be retained where possible. The HDD would drill a pilot hole beneath the surface at a depth that maintains minimum coverage requirements, after which the hole would be enlarged with a reamer to a diameter sufficient to accommodate the pipe diameter. A pre-welded and pre-tested section of pipe would be pulled into the hole from the side of the bore hole opposite the drilling equipment.

Buried gathering line segments would be installed at least 4.5 feet below all active wash bottom elevations. Generally, this increased depth would be extended for a distance of half the width of the wash on either side of the wash. For example, if the wash is 20 feet wide, the increased depth would extend 10 feet beyond each side of the wash. Disturbed wash banks would be stabilized with natural erosion control materials including rocks, erosion control blankets, rip rap, or other stabilizing materials.

A hydrostatic pressure test would be performed for each gathering line prior to operation. The gathering lines would be tested to at least 110 percent of maximum operating pressure using up to 465,000 gallons of water (total). The water would be obtained from a permitted source or a private owner that holds valid water rights. Disposal of the test water would be in conformance with applicable state and BLM requirements.

Road Upgrade

Up to 35 feet may be required to upgrade the Class D to an all-weather access road. Upgrading the Class D road would require short re-routes to eliminate sharp corners and allow for safe travel by tractor trailers and tanker trucks. A surveyed route showing proposed modifications to the configuration of the existing road would be provided to the BLM prior to project approval. The upgraded road would require a 14-foot running surface.

The road surface would be bladed and graded. High wash banks would be bladed, and the extra material would be used as fill in the wash bottoms and on adjacent sections of the road. Where slickrock exposures or rocky areas exist along the road, materials remaining from grading would be used to smooth out the surface. Dry wash crossings would be used where possible, but culverts and cattle guards would be installed if necessary to control drainage and livestock movement. Turnouts would be constructed according to Gold Book standards. The Operator would obtain road surfacing materials from permitted sources. Construction would not be conducted during wet conditions when soils are saturated. Approximately seven days would be needed to upgrade the Class D road.

Other Infrastructure

Gathering line infrastructure would include surface and subsurface equipment. All aboveground equipment would be painted shale green, or other flat color specified by the BLM, and would be positioned to be screened from view or blend in with the immediate natural surroundings as much as possible. Where located adjacent to a Class B road or SH 313, the Operator would place the aboveground infrastructure behind trees, shrubs, or rocks, where present. Alternatively, existing soil berms or ridges may be built up or rocks placed to provide visual screening from travelers on an adjacent road.

Subsurface tee and stubs for possible future connections would be installed below the ground surface. Such equipment would be prefabricated off-site and installed within the construction corridor where needed.

Pig receiver and launcher valves would be used to clean and inspect the interior of the gathering lines. Pig receivers or a combination of receiver and launcher valves in a single valve assembly would be installed aboveground along the DHL pipeline ROW or along the gathering line construction corridor where pipe diameter changes. One pig launcher would be installed on each existing well pad. Pig receivers would be installed where a gathering line joins another gathering line or where a gathering line joins the DHL pipeline. In addition to the measures previously described to minimize the visual impacts, the Operator would install low profile in-line valves that are about 1/10 the size of typical pig launchers and receivers. Each pigging valve assembly would be protected by a steel pipe tubing enclosure measuring approximately 3 feet high, 4 feet wide, and 16 feet long. Alternatively, rocks may be brought in and placed nearby to serve as security bollards.

Low point drain valves would be sited at topographic lows along the gathering lines. Produced natural gas typically contains some amount of water, which condenses out of the gas phase as the gas cools. The standing liquids would be collected by a vacuum truck that would be temporarily connected to the gathering line. Low point drain valves would rise approximately 2.5 feet above

the ground surface and would be protected by a 3-foot high, 3-foot wide, 3-foot long pipe enclosure and/or with rocks.

Flares would remain in place at the well pads to be used during maintenance operations that require that a well be taken offline, during which time natural gas would be temporarily flared at the well pad(s) served by the gathering line. Table 3 summarizes the construction details for each gas gathering line.

Table 3: Gathering Line Construction Details ¹

Gathering Line	Well Status	Construction Details
Cane Creek 1-1	Active well.	Connects to the CCU 36-1 gathering line. Buried along well access road. Surface laid cross-country to the CCU 2-1 well pad via cable pull.
Cane Creek 2-1	Active well.	Connects to the CCU 36-1 gathering line, entirely on CCU 2-1 well pad.
Cane Creek Unit 2-1-25-18	Drilling and completion.	Well pad on state surface. Connects to the CCU 16-2 gathering line. Buried along well access road.
Cane Creek Unit 7-1	Active well.	Connects to the DHL pipeline. Buried along well access road and Class D road. Trenched under Long Canyon Road. Bored under SH 313. 2,274 feet within the DHL ROW.
Cane Creek 8-1	Shut-in.	Connects the CCU 8-1 well pad to CCU 18-1 gathering line at CCU 18-1 well pad. Buried along Class D road.
Cane Creek Unit 12-1	Active well.	Connects to the DHL pipeline. Buried along Class D road. Bored under SH 313.
Cane Creek Unit 16-2	APD approved	Well pad on state surface. Connects to DHL pipeline. Surface laid cross-country via bulldozer pull to CCU 10-1 tie-in. Trenched under Class B road.
Cane Creek Unit 17-1	Active well.	Connects to the CCU 18-1 gathering line. Surface laid along Class D road to Long Canyon Road via bulldozer pull. Surface laid cross-country to the CCU 18-1 tie-in via cable pull. Trenched under Long Canyon Road.
Cane Creek Unit 18-1	Active well.	Connects to the CCU 7-1 gathering line. Surface laid cross-country via bulldozer pull.
Cane Creek 24-1	Active well.	Connect to the DHL pipeline. Buried along well access road and Class D road. Also, carries production from the CCU 13-1 well.
Cane Creek Unit 26-2	Active well.	Connects to the DHL pipeline. Buried along well access road, Class D road, and Class B road. Bored beneath SH 313.
Cane Creek Unit 28-2	Active well.	Connects to the DHL pipeline. Buried along well access road.
Cane Creek Unit 32-1-25-19	Drilling and completion.	Connects to the CCU 36-1-25-18 gathering line. Buried along well access road.
Cane Creek 36-1-25-18	Drilling and completion.	Connects to the DHL pipeline. Buried along well access road, Mineral Point Road, and upgraded Class D road. Trenched under Mineral Point Road.
Cane Creek Unit 36-1	Active well.	Connects to the DHL pipeline. Surface laid cross-country via cable pull to the CCU 2-1 well pad. Surface laid cross-country via bulldozer pull to the DHL. Trenched under Gemini Bridges Road. Bored beneath SH 313.
Kane Springs Federal 10-1	Active well.	Connects to the CCU 16-2 gathering line. Buried along Class B road.
Kane Springs 19-1A-ST	Active well.	Connects to the CCU 24-1 gathering line. Buried along well access road and Class D road.
Kane Springs Federal 27-1	Active well.	Connects to the CCU 26-2 gathering line. Buried along well access road.
Kane Springs Federal 25-19-34-1	Active well.	Connects to the DHL pipeline. Buried along well access road. Bored beneath SH 313.

¹ The Long Canyon 1 well is not connected because it no longer produces natural gas.

Routine Maintenance and Operations

The gathering lines would operate 24 hours each day, 365 days a year. The Operator would adhere to applicable pipeline operational and maintenance standards. Although not currently planned, the buried section of the gathering lines may be marked along its route with warning signs that would display the contents of the line and the operator's name and emergency contact information. If the installation of signs is necessary to ensure gathering line safety by identifying the route, the Operator will consult with the BLM to determine sign height necessary for safety and visibility.

The gathering line routes would be routinely patrolled and inspected by personnel on foot or in vehicles to check for problems such as erosion, general condition of the surface, unauthorized encroachment, and any other conditions that could cause a safety hazard or require preventive maintenance. At a minimum, an annual line patrol would detect any integrity issues with the surface facilities. The acquired information would be compiled, cataloged, and filed for the life of the pipeline system.

Gathering lines generally require little maintenance. Valves would be exercised regularly to ensure they will seal when needed. If damage to a gathering line would occur, detailed line break and emergency procedures would be followed. A safety manual developed for the DHL pipeline, including an Emergency Response Plan, would apply to the operation of the gathering lines. Standard emergency procedures include notification protocols, response procedures for fires, explosions, facility damage, adverse weather conditions, civil disorders, and vandalism.

The Operator would periodically inspect the pipeline route and other temporary use areas for the presence of noxious weeds during the first two years following construction activities. If noxious weeds are identified, they would be promptly treated and controlled according to the Operator's approved Pesticide Use Proposal. The Operator would utilize spot-spraying of individual plants as the principal method of control rather than broadcast spraying large areas.

Reclamation

Reclamation operations would be performed in conformance with the Operator's Reclamation Plan for the Dead Horse Lateral Pipeline submitted to the Moab FO in July 2013. The Reclamation Plan emphasizes the importance of pre-disturbance planning, with consideration given to vegetation management, soil management, and facility visibility and describes procedures for topsoil salvage and surface preparation for seeding. All equipment and materials not necessary for gathering line operation and maintenance would be removed from the construction corridor after construction is complete. The surfaces of all unpaved Class B and Class D roads would be restored to existing road conditions after construction is finished.

Reclamation after construction would essentially comprise final reclamation. All surface areas affected by gathering line construction and installation would be reclaimed. Immediate reclamation measures would be taken to stabilize disturbed areas, restore topsoil and encourage vegetative cover, and control erosion. The upgraded road would be reclaimed outside of the running surface. Additional areas needed to trench or bore under roads would be reclaimed. Where salvaged, topsoil would be evenly distributed, mulch applied, as available, and the disturbed area aggressively seeded.

All disturbed areas would be seeded using a certified weed-free seed mix intended to provide a self-sustaining plant community consistent with pre-disturbance vegetation. Seeding would be performed immediately after construction operations are complete. Mulch, silt fencing, waddles, hay bales, and other erosion control devices would be used in areas at risk of soil movement from wind and water erosion.

Reclamation would be determined successful when the basal cover of desirable perennial species is representative of baseline survey conditions or at least 75 percent of the basal cover on adjacent or nearby undisturbed areas where vegetation is in a healthy condition. Actions would be taken to ensure that reclamation standards are met as quickly as reasonably practical and are maintained during the life of the project. During the life of the gathering lines, reclaimed areas receiving incidental disturbance during maintenance activities would be reseeded as soon as practical. Reclaimed areas would be monitored semi-annually. Annual monitoring of the gathering line routes would be documented in conjunction with monitoring the condition of the DHL route. The documentation would be submitted to the BLM by May 1. The report would document the extent to which the reclamation objectives are met. If the standards are not met, a timeline for achievement of the objectives without additional actions would be estimated. Alternatively, actions would be identified needed to meet the objectives and standards.

The gathering lines would be decommissioned following the productive lives of all connected wells. The buried pipe would be left in place; however, pig launchers, receivers, and all aboveground valves/infrastructure would be removed. Areas disturbed during infrastructure removal, would be reclaimed as previously described. The routes would be seeded to re-establish native/desired vegetation. Monitoring and inspections would be performed to achieve the desired objectives.

Surface Disturbance

Surface disturbance would result from the gathering line construction corridors and upgrading the Class D road. Where a gathering line would be installed adjacent to a well access road or Class D road, the 14-foot running surface of the access road would be used for construction operations, reducing the effective disturbance corridor along access roads from 30 feet to 16 feet. Although one lane of a Class B road may be used for construction operations where a gathering

line would be installed adjacent to it, the entire 30-foot construction width was conservatively included in the disturbance estimates. The upgraded Class D road would utilize the 14-footwidth of the existing road plus an additional 21 feet. The 35-foot total construction width for this road would include the surface needed to install the adjacent gathering line. The estimates of construction disturbance include the additional areas need to trench or bore under roads. Approximately 2,274 feet of the CCU 7-1 gathering line route would be placed inside the ROW for the DHL pipeline. Surface disturbance for the DHL pipeline was analyzed in DOI-BLM-UT-Y010-2013-067-EA, and this portion of the gathering line system was not included in the estimate of new surface disturbance.

Infrastructure that would be placed on existing well pads and belowground equipment were not included in the disturbance estimates. Each pigging assembly would affect approximately 0.001 acre and each low point drain would affect approximately 0.0002 acre. They would be positioned at various points along the gathering line routes, would not effectively preclude use of the surface, and are therefore considered incidental disturbance because total disturbance from these facilities would be very low.

Long-term disturbance corresponds to the area that would not be reclaimed after gathering line construction. It consists of the aboveground pig valve assemblies and the low point drain connections. A summary of surface disturbance is provided in Table 4.

Table 4: Alternative A - Surface Disturbance Summary (acres)

Gathering Line	Construction Disturbance (acres)	Reclamation (acres)	Long-term Disturbance (acres)
CCU 1-1	0.4	0.4	0
CCU 2-1	0	0	0
CCU 2-1-25-18	0.6	0.6	0
CCU 7-1	3.7	3.7	0
CCU 8-1	1.5	1.5	0
CCU 12-1	1.5	1.5	0
CCU 16-2	20.0	20.0	0
CCU 17-1	2.3	2.3	0
CCU 18-1	0.5	0.5	0
CCU 24-1	2.3	2.3	0
CCU 26-2	5.2	5.2	0
CCU 28-2	0.4	0.4	0
CCU 32-1-25-19	0.9	0.9	0
CCU 36-1-25-18	13.4	13.4	0
CCU 36-1	2.3	2.3	0
Kane Springs Federal 10-1	3.8	3.8	0
Kane Springs 19-1A-ST	4.6	4.6	0
Kane Springs Federal 27-1	0 ¹	0 ¹	0
Kane Springs Federal 25-19-34-1	1.0	1.0	0
Class D Road Upgrade	3.7	3.7	0
Total	68.1	68.1	0

¹ Approximately 0.01 acre.

Project Design Features and Applicant Commitments

Table 5 summarizes the design features that would be incorporated into project execution. They are intended to provide protection to the environmental resources of the project area.

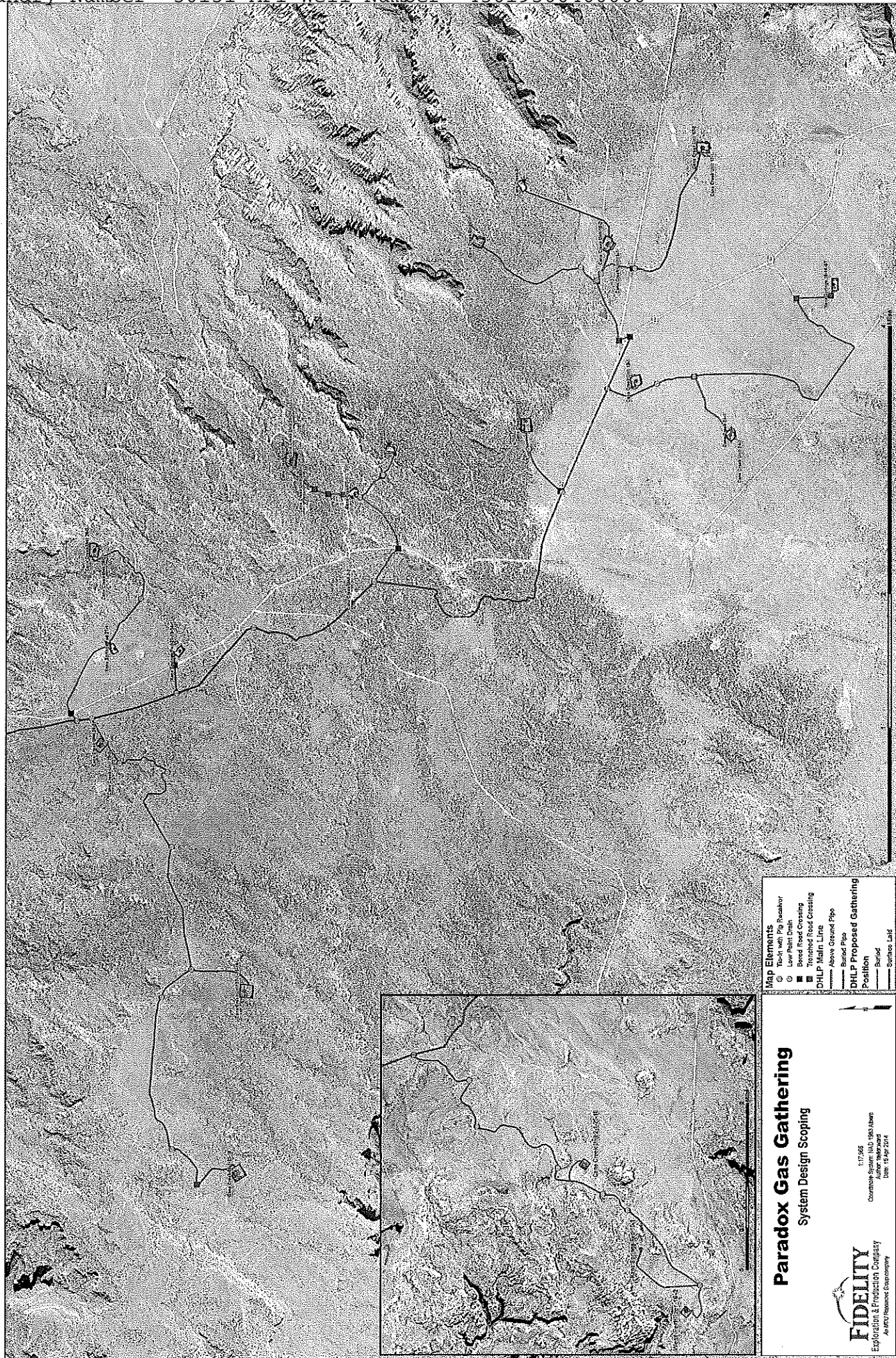
Table 5: Project Design Features and Environmental Protection Measures

Project Design Features
General
The Operator will adhere to all applicable federal, state, county, and BLM regulations, including Conditions of Approval, while performing all operations associated with the Proposed Action.
Construction operations would be conducted in consideration of the <i>Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition</i> (Gold Book) (USDI and USDA, 2007).
The Operator will follow guidance presented in the BLM publication <i>Hydraulic Considerations for Pipelines Crossing Stream Channels</i> (2007).
The Operator will provide "survey in place" documentation to the BLM to display construction details associated with each gathering line, including surveyed locations and depths of buried pipe.
The Operator will utilize an independent 3 rd -party compliance monitor to ensure that gathering line construction operations would be conducted in accordance with applicable conditions of approval.
The Operator will perform internal inspections of its facilities to ensure that normal operations will be in compliance with the Onshore Orders and other rules and regulations that apply to the project, the Cane Creek Reclamation Plan, and commitments as described in this EA. The Operator will provide an annual report to the BLM describing the progress of its reclamation operations until the BLM agrees that reclamation has been successful.
The Operator will implement hiring policies that would encourage the employment of area residents and, to the extent feasible, will purchase equipment and materials from local area merchants.
Firearms will not be allowed at construction sites, and the Operator's drug, alcohol, and firearms policies will be rigorously enforced.
Access
The Operator will provide a surveyed route to the BLM prior to project approval showing proposed changes to the existing orientation of the Class D road that would be upgraded to bypass the Horsethief Campground.
Where possible, the Operator will utilize the construction corridor of existing access roads for gathering line installation.
The Operator will not inhibit public use of SH 313. Gemini Bridges or Long Canyon Roads may be closed briefly during trench road crossings. Wildlife or livestock movement would not be inhibited.
Where installed adjacent but offset to Class B roads, the Operator will locate the gathering line route as distant from the centerline of the Class B road as possible while saving as many trees as possible. The construction corridor will remain 30 feet wide.
Where installed adjacent to well pad access roads or Class D roads (not maintained by Grand County), the Operator will install the pipeline as close as possible to the access or Class D road.
Where installed below the borrow ditch immediately adjacent to Class B roads, the gathering line will be installed with a minimum of five feet of coverage. A survey "in place" of these lines will confirm the depth below the surface, and will be provided to the BLM and Grand County.
Construction equipment may be left overnight within the construction corridor but would not be parked overnight on Class B roads to ensure public access along these roads.
Air Quality
During construction operations, the Operator will perform dust mitigation with the application of water, as needed.
The Operator will instruct its employees and contractors not to exceed 20 miles per hour on any well access road during construction or normal daily activities to discourage the generation of fugitive dust.
Cultural Resources

Project Design Features
The Operator has conducted Class III cultural resource surveys on undisturbed lands that would be affected by gathering line construction and will avoid all sites determined to be eligible to the National Register of Historic Places. The results of these surveys will be submitted to the BLM.
Construction activities occurring within and near archaeological sites will be monitored by permitted archaeologists. Permitted archaeologists will perform open trench inspection along the entire length of any trenching activities for unexpected discoveries, regardless of the trench location.
Should cultural resources be discovered during construction of the proposed pipeline and associated facilities, all work would stop and the Moab BLM Field Office immediately contacted.
The Operator will prohibit staff and contractors from illegal collection or destruction of cultural resources and will discipline workers violating such policies and laws.
Paleontological Resources
The Operator has conducted a paleontological inventory on State of Utah and BLM lands affected by surface-disturbing activities. The results of the inventory will be submitted to the BLM.
A paleontology monitor would monitor all surface disturbing activities that occur within a Potential Fossil Yield Classification (PFYC) of 5, including the Morrison Formation. Monitoring in areas of PFYC 5 would be performed during ongoing operations, and in some cases extended periods of work may be required, although efforts would be made to complete any fossil recovery with minimal work stoppage. The Mancos Shale would be spot-checked in areas where any trenching or boring is to be done. Spot-check monitoring would be conducted when the Mancos is exposed to view or before pipe is placed and the trench backfilled.
Monitoring would be required for any surface-laid pipe within PFYC 5 areas where there would be blading or grading of the surface more than 12 inches wide AND/OR greater than 1 meter deep. A monitor would spot check for any surface-laid pipe within PFYC 4 areas where there would be blading or grading of the surface more than 12 inches wide AND/OR greater than 1 meter deep.
Areas of PFYC 3 are recommended for spot checks; although this maybe waved in areas that are covered in moderate to deep eolian sediments (3% of the proposed pipeline route is in a PFYC 3 area, with no PFYC 4 currently impacted). These include the Mancos Shale, Navajo Sandstone and the Kayenta Formation. Spot-checking is conducted when the fossil-bearing bedrock is exposed to view or prior to placing spoil material back into the excavation, such as when a pipeline trenching operation is complete but before pipe is placed and the trench backfilled.
Should paleontological resources be discovered during construction of the proposed pipeline and associated facilities, all work would stop and the Moab BLM Field Office immediately contacted.
Recreation and Safety
The Operator will ensure public safety at all times. During construction operations, public access would be maintained on Gemini Bridges and Long Canyon Roads by utilizing just one lane at any particular time so that one lane would remain open, or vehicle traffic would be temporarily routed to detour along the temporary construction ROW. Appropriate controls would be in place during construction within a roadbed or adjacent shoulders of the road to warn the public and control traffic. Traffic cones and "construction zone" signs would be used to warn oncoming traffic of construction operations. Sufficient space would be allowed for passage of a single vehicle. Flagmen would be placed at either end of the work area if visibility is less than 100 yards.
Off-road (cross-country) construction operations, including vehicle movement and travel, will be conducted within the approved temporary construction corridor.

Project Design Features
<p>Although trees will be generally avoided, the Operator will take the following measures to reduce fuel loads and prevent possible fires:</p> <p>While performing construction operations, if any standing live or dead trees were to be damaged, cut down, or knocked over by grading or construction equipment, the Operator will take actions to mitigate the fuel loads from resultant slash. In areas where reclamation of the site would be expected and slash would be utilized to help reclaim the site, the Operator may temporary stockpile slash until termination of this activity.</p> <p>Disposal actions include chipping materials on site with dispersal along the road or pad edge. Disposal of materials will be conducted with the following stipulations:</p> <ol style="list-style-type: none"> The BLM would pre-approve the disposal location. Piled vegetation will not be within 15 feet of standing live trees.
Soils and Vegetation
<p>The Operator will use the reclamation plan developed for the DHL PL to direct reclamation operations on each gathering line to ensure that reclamation operations meet acceptable standards. The Operator will monitor reclamation progress semi-annually and provide the BLM with an annual report detailing reclamation status.</p>
<p>The Operator's reclamation performance goals include:</p> <ul style="list-style-type: none"> Preserving the viable use of topsoil; Re-establishing vegetation; and Minimizing visual impacts resulting from bare ground and the appearance of slopes created during construction operations.
<p>Reclamation of the gathering line construction corridors will begin as soon as practicable after line installation</p>
<p>The Operator will re-distribute topsoil and re-seed as much of a gathering line construction corridor as possible to maintain topsoil viability and revegetate bare ground.</p>
<p>Reclaimed areas above buried gathering lines receiving incidental disturbance during maintenance activities will be reseeded as soon as practical with a seed mix approved by the BLM.</p>
<p>The Operator will power-wash construction equipment prior to entry into the project area.</p>
<p>The Operator will monitor growth of invasive species resulting from surface disturbance caused by project activities and will control weeds by the application of commercial herbicides in accordance with its approved Pesticide Use Proposal.</p>
<p>The Operator will conduct pre-construction briefings during which the field crew would be educated to identify and avoid soil crusts where possible.</p>
Surface Water
<p>The Operator will utilize best management practices for control of nonpoint sources of water pollution to prevent soil erosion, sedimentation, and damage to floodplains of drainages that transport ephemeral water.</p>
Visual Resources
<p>The Operator will paint all permanent aboveground structures (onsite 6 months or longer), constructed or installed, Shale Green or a flat, nonreflective color as determined by the BLM.</p>
<p>The Operator will install low profile in-line pigging valves that are about 1/10 the size of typical pigging valves in order to minimize the visual impacts of surface equipment.</p>
<p>Where aboveground equipment would be located adjacent to a Class B road or SH 313 in VRM II areas, the Operator will place the aboveground gathering line equipment behind trees, shrubs, and rocks, where present, to prevent viewing by travelers on the road as much as possible to assist in maintaining consistency with the VRM II objective which allows activities to be seen but diminishes the likelihood of attracting the attention of a casual observer. Where trees or rocks are not available in the vicinity of aboveground gathering equipment, the Operator will bring in natural materials to place between the Class B road or SH 313 and the equipment to discourage a direct</p>

Project Design Features
view of the equipment.
Existing roads will be used for construction purposes and vehicle access for inspections and maintenance. Using designated routes for construction and inspection purposes would prevent unnecessary and unintended adverse effects to soils, vegetation, and visual resources.
If the installation of signs is necessary to ensure gathering line safety by identifying the route, the Operator will consult with the BLM to determine sign height necessary for safety and visibility.
Wildlife
During the spring of 2014, an approved biological contractor is conducting raptor surveys for the presence of active nests in the vicinity of the proposed gathering line routes. If an active nest is found, applicable spatial and seasonal buffers will be applied to construction operations until the nest is fledged. The results of the survey will be provided to the BLM.
The Operator will any conduct additional biological resource surveys as directed by the BLM.



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML44333
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: CANE CREEK
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: CANE CREEK UNIT 16-2-25-18
2. NAME OF OPERATOR: FIDELITY E&P COMPANY		9. API NUMBER: 43019500460000
3. ADDRESS OF OPERATOR: 1801 California St. Ste 2500 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: CANE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0885 FNL 0708 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 25.0S Range: 18.0E Meridian: S		COUNTY: GRAND
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/7/2014			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Cane Creek Unit 16-2-25-18 was spud on 5/7/2014. Set 110 ft of 20 inch conductor and cemented with 15 yds Redimix cement.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 May 14, 2014

NAME (PLEASE PRINT) Sandi Stocker	PHONE NUMBER 720 931-9637	TITLE Engineering Tech
SIGNATURE N/A		DATE 5/14/2014

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Fidelity Exploration and Production Company Operator Account Number: N 3155
 Address: 1801 California Street, Suite 2500
city Denver
state CO zip 80202 Phone Number: (720) 931-9637

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301950046	Cane Creek Unit 16-2-25-18		NENE	16	25S	18E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
			5/7/2014				
Comments:							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Sandi Stocker

Name (Please Print)

Sandi Stocker

Signature

Engineering Tech

Title

5/14/2014

Date

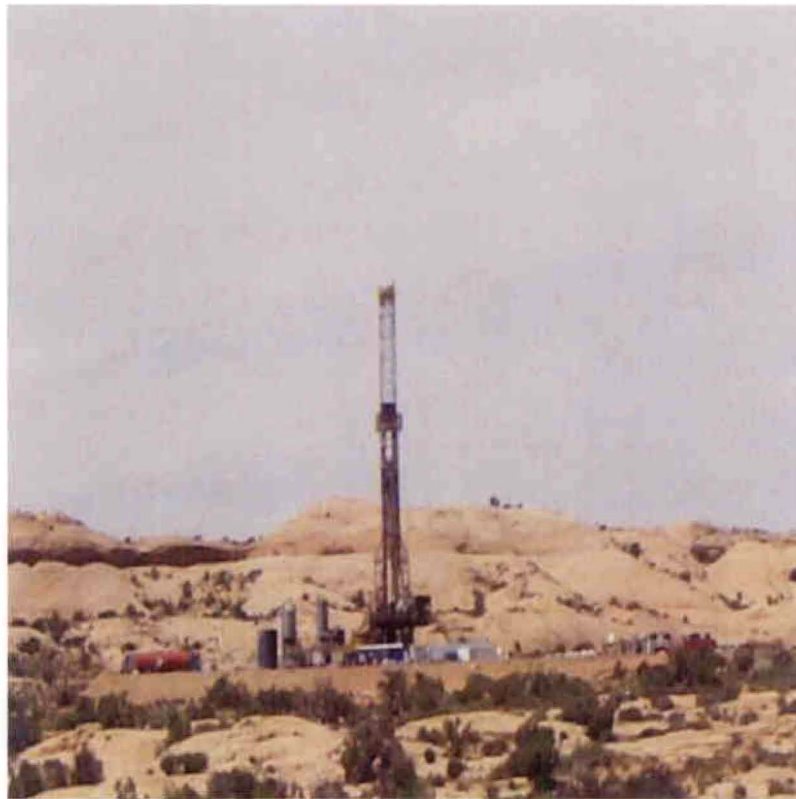
43 019 50046

FIDELITY EXPLORATION & PRODUCTION CO.

CANE CREEK UNIT STATE # 16-2-25-18

NE/NE Sec 16, T25S, R18E

GRAND COUNTY, UTAH



GEOLOGY REPORT
by

Hal Schmidt
Consulting Geologist
Hal Schmidt LLC
10 Heather Way
Golden, Colorado 80401
Bus: 303-279-4013
Cell: 303-919-7822

Kathy Blum
Consulting Geologist
Kathy Blum LLC
2830 B 3/10 Road
Grand Junction, Colorado 81503
Cell: 970-261-4334

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

RECEIVED
JUL 15 2014
DIV. OF OIL, GAS & MINING

WELL DATA SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

<u>OPERATOR:</u>	FIDELITY EXPLORATION & PRODUCTION CO.
<u>ADDRESS:</u>	1801 California St. Suite 2500, Denver, CO. 80202
<u>WELL NAME:</u>	CANE CREEK UNIT ST # 16-2-25-18
<u>API #:</u>	430-195-0046
<u>SURFACE LOCATION:</u>	896' FNL & 706' FEL, NE/NE SEC 16, T25S, R18E
<u>FIELD:</u>	Cane Creek Unit
<u>COUNTY, STATE</u>	Grand, Utah
<u>BASIN:</u>	Paradox
<u>WELL TYPE:</u>	Exploratory
<u>BASIS OF PROSPECT:</u>	Proximity to Cane Creek oil production & 3D Seismic
<u>ELEVATION:</u>	GL: 5274', KB: 5297' (Measured, Graded)
<u>SPUD DATE</u>	May 13, 2014
<u>TD DATE:</u>	June 13, 2014
<u>HORIZONTAL TARGET:</u>	Paradox, Cane Creek Shale
<u>KICK-OFF POINT:</u>	7270' md, 7262' tvd
<u>TOTAL DEPTH:</u>	11,365' md, 7857.75' tvd

WELL DATA SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

<u>TVD AT TD:</u>	7857.75'
<u>BOTTOM HOLE LOCATION:</u>	860.28' FNL, 847.76' FWL, NW NW SEC. 16, T25S, R18E
<u>FINAL VERTICAL SECTION:</u>	3729'
<u>FINAL CLOSURE AZIMUTH:</u>	3729.8' @ 270.55 deg.
<u>PROPOSED AZIMUTH:</u>	271.89 deg.
<u>TOTAL DRILLING DAYS</u>	32
<u>STATUS OF WELL:</u>	Waiting Completion
<u>CONTRACTOR:</u>	Nabors Rig M40
<u>TOOLPUSHER:</u>	Shannon McDaniel, Brendon Evans
<u>FIELD SUPERVISORS:</u>	Delbert Sullivan, Paul Roberts, Sam Larado, Tucker Yancey
<u>MUD COMPANY:</u>	NOV Fluid Control Eric Mascarenas, Paul McCracken, Clark Sievers, Mike Whitt
<u>MUD TYPE:</u>	Air/Mist, Water, Invert
<u>WELLSITE GEOLOGISTS:</u>	Hal Schmidt, Kathy Blum
<u>PROSPECT GEOLOGIST:</u>	Robert Flook, Dave Koval, Jen VanHolland, Chris Lang, Fidelity.
<u>ROCK SAMPLING:</u>	30' Lagged Samples Two sets of dry sample cuts were collected.
<u>DIRECTIONAL DRILLERS:</u>	Pathfinder Jonathan Rice, Jacob Hoffer, Todd Bratten

WELL DATA SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

MWD:

Pathfinder
Paul Foreman, Dustin Easley, Stewart Robertson, Cody Anderson

CASING:

20" Conductor @ 130': 13 3/8" @ 1,201'
9 5/8" @ 4909': 7" @ 11,365'

HOLE SIZE:

17 1/2" base 20" conductor 131' to 1238'
12 1/4" 1,238' to 4,920'
8 1/2" 4,920' to 11,365'

CORES and DST's:

None

WIRELINE/OPEN HOLE LOGS:

Triple Combo, OBMI/Sonic Scanner , 4460' to 7672' - Pilot Hole
CBL/GR, 4465' to 1201'

KEY WELL

McRae O & G Corp., Federal #1
SW/SW Sec 10, T25S, R18E

FIDELITY EXPLORATION AND PRODUCTION
DISTRIBUTION
CANE CREEK UNIT ST # 16-2-25-18

<u>DISTRIBUTION</u>	Geological Report	Final Mud Log prints	Digital mud log	Well Cuttings
Fidelity Exploration and Production Co. Drilling Manager Bruce Houtchens 1801 California St. Suite 2500, Denver CO 80202	2	2	2	0
Fidelity Exploration & Production Co. Jenifer VanHolland 1801 California St. Suite 2500 Denver CO 80202	1	1	1	0
Dave Koval Fidelity Exploration and Production 1801 California St. Suite 2500 Denver, CO 80202	2	2	2	1
State of Utah Division Oil Gas and Mining P.O. Box 145801 1594 W. Temple Suite 1210 Salt Lake City, UT 84114-5801	1	0	0	1
Bureau of Land Management Moab Field Office 82 E. Dogwood Moab, UT 84532	1	0	0	0

GEOLOGICAL INTRODUCTION

The Fidelity Exploration & Production Co. Cane Creek Unit #16-2-25-18, located in NE NE, Section 16, T25S, R18E spud near the base of the Jurassic, Navajo Formation on May 13, 2014. It was drilled vertically to a depth of 8050' bottoming in Clastic #24 approximately 100' below the base of the Cane Creek Shale. Electric logs were then run to obtain lithology and fracture information from the objective Cane Creek Shale member of the Pennsylvanian Paradox Formation.

The well was plugged back with cement to 6800' and a lateral was deviated from 7270' kick off point to land at 8158' with an inclination of 78.5 degrees in the Cane Creek Shale on June 4, 2014.

At this point, the curve BHA was tripped out of the hole and replaced with a lateral BHA containing an ipzig tool in order to obtain gamma data at the bit. The horizontal lateral was then drilled, following the flat to gently west dipping B zone target dolomite. At 9000' to 9221' abrupt changes in azimuth occurred. To avoid crossing a 660' hard line limit, the drilling assembly was pulled back to 8410' and the hole was sidetracked. Drilling then continued to total depth of 11,365'.

A 24 hour, two man geologist well site service began on May 15, 2014 at base of surface casing at 1226'. An MSI chromatograph was used to record total gas along with the various gas components of C-1 through C-4. The total gas readings were displayed on the rig electronic data recorder screen "Pason" for viewing by operating personnel at the rig. The total gas and the various gas components recorded were plotted at lagged depth to compile a permanent mudlog record of drilling parameters, lithology drilled along with hydrocarbon shows.

VERTICAL PILOT HOLE

LITHOLOGY DRILLED TRIASSIC, PERMIAN

The well spud in the basal Jurassic, Navajo Formation and was drilled with air & water to 1238' in the Triassic Moenkopi Formation. Surface casing was set and cemented at 1226'. Geology service started at this depth. As drilling resumed, air & water continued to be used as a drilling medium. Samples were caught as air/water carrying cuttings, discharged from the blowline muffler and into a series of settling tanks. A reserve pit was not used due to government restrictions. As air/water was employed as a drilling medium, the flow was not always consistent and some surging or unloading was present at various times. As a result, the basic lithology can be interpreted but detailed changes in lithology are highly generalized. From 1226' to 1620' the lithology consisted of fine to very fine grained pinkish white to red-brown sandstone and red-brown, maroon, silty shale.

The White Rim Sandstone was present at 1620' to 1780'. The White Rim Sandstone marks the top of the Cutler Formation. The sandstone is white, very fine to fine grained, and is composed of loose clear quartz grains, sub-angular to sub-rounded with weak calcareous cement. A significant fresh water flow of 100 to 200 bbls per hour was encountered at 1719'. The water flow continued to be a problem until intermediate casing was set at 4920'.

The interval from 1780' to 2345' consisted of sandstone with minor shale interbeds. Shale was red-brown to maroon in color, soft changing to mud when wet as the hammer drill bit reduced it to powder. Thick, massive, rusty red-brown to reddish gray-brown, very fine to coarse grained, arkosic, micaceous sandstone was predominate in the interval.

At 2345' to 3004', limestone, gray-white, to medium dark gray in color, with chert, traces of fossil debris, oolites and pellets was interbedded with the sandstone and shale described above. The overall color of the section being drilled slowly began to change from red to gray. Due to the high volume of air needed to keep the air hammer drilling and move water out of the hole, some up hole erosion occurred, which kept a fair amount of red sediments present in the discharge stream.

At 2830' to 3004', limestone, light to medium gray-brown, micro crystalline with some scattered oolites along with sandy limestone was drilled along with thin interbeds of light pink-white to light gray, very fine grained sandstone.

PENNSYLVANIAN

Honaker Trail Formation

At 3004' the Honaker Trail Formation was picked by a change in lithology to light to medium gray, to gray-brown, dense, micro-crystalline limestone, medium to dark gray, very fine to fine grained calcareous sandstone and dark gray shale. Below 3200' the sandstone is white, fine to medium grained, calcareous and contains black mica flakes as does the associated light, medium gray limestone. The limestone is light gray to white in color, very fine to micro crystalline, sometimes sandy and often has traces of oolites and fossils. At 4036' the air hammer bit was tripped out of the hole and replaced by a tri-cone insert bit. Drilling proceeded using aerated water as a drilling fluid.

Paradox Formation

The top of the Paradox formation was picked at 4605'. Lithology consisted of limestone, light gray, off white to tan, brown in color, very fine to micro crystalline to dense with interbeds of dark gray, black, carbonaceous shale present in the upper part.

The Ismay formation top was not picked, but may be at 4565 based on drill time. The Ismay consisted of limestone, light gray to gray-brown in color, very fine crystalline, friable and soft..

Salt #1 was encountered at 4605'. Due to drilling with aerated water, no salt was initially seen in samples as it dissolved before reaching the surface. By using a tri-cone bit, the top of the salt can be determined from the increase in drill rate, which is consistent and fast at close to 120 feet per hour.

The top of Clastic #1 was drilled at 4798' and the base at 4885' based on drill time. Lithology consisted of interbedded limestone, black shale and anhydrite but the samples were very poor. No gas increases were recorded.

Salt #2 at 4885' was drilled to 4920'. Intermediate 9 5/8" casing was then run to 4909', set and cemented. An 8 1/2" bit was run in the hole and cement, float and casing shoe was drilled along with an additional 10 feet of new formation to 4930 where a successful formation integrity test was run to 18 ppg EMW. The mud system was then converted to oil base invert and drilling of the hole continued with a PDC bit and directional BHA.

With the change to oil base mud, meaningful gas detection became possible because of the absence of air diluting the drilling fluid. While drilling ahead, gas increases were recorded from the various clastic zones that are sandwiched between bedded salt as follows:

Clastic # 2: Gas increased to 94 units at 4970' to 4972' and 37 units at 4994' to 5014', from fractured medium gray dolomite. The chromatograph indicated the gas was methane and ethane. Mud wt. was 13.6 ppg.

Clastic # 4 Dolomite and black shale gave a gas increase to 70 units from 5246' to 5278' and 77 units from 5290' to 5306'.. Methane and ethane were present and mud weight was 13.6 ppg.

Clastic #5: Thin beds of black shale and dolomite separated by anhydrite gave gas increases from 68 to 150 units in the interval 5524' to 5552'

Clastic # 6: A gas increase of 432 units was recorded at 5663' to 5666' from dolomite.

Clastic #7: A gas increase to 1014 units was present at 5749' to 5762'. The gas is interpreted to be coming from black shale and light gray dolomite. A black shale at 5780' to 5788' gave an increase to 400 units, and another black shale at 5800 to 5806 recorded 270 units, Methane and ethane were identified and mud weight was 13.6 ppg

Clastic #8: .At 6025' to 6030', gas increased to 262 units from dolomite. Mud weight was 13.6 ppg and methane and ethane were identified.

Clastic # 9: A gas increase to 513 units from black shale was recorded from 6262' to 6272. Methane and ethane were present and mud weight was 13.6 ppg.

Clastic #12: A significant gas increase to 2104 units was recorded from 6680' to 6692'. The lithology consisted of black shale and dolomite. Methane, ethane and propane gases were present. Mud weight was 13.6 ppg. Mud weight was gradually increased after recording nearly 6000 units of downtime gas which surfaced after being down to repair mud pump #2. Weight was 14.2 ppg at 7098 when 1280 units of downtime gas was recorded.

Clastic #18-19: At 7570' to 7586' a 606 unit gas increase was recorded from dolomite and black, organic shale. Mud wt was 14.5 ppg

CANE CREEK SHALE 7856' md, 7852' tvd

The Cane Creek Shale is divided into three zones termed A, B and C. The A zone comprises the upper one third of the Cane Creek Shale and is composed of alternating thin beds of anhydrite, black shale and dolomite. Anhydrite tends to predominate towards the top of this interval.

The B zone is composed of black, radioactive, carbonaceous, shale and light to medium gray, dolomite. This is the predominate lithology in the middle one third of the Cane Creek and is the principal productive interval in the Cane Creek.

The C zone comprises the lower one third of the Cane Creek and is generally dominated by anhydrite and dolomite with some thin organic black shales.

While drilling through the upper Cane Creek, back ground gas varied from 222 to 323 units. Gas increases were identified as generally coming from black organic shales.

The base of the Cane Creek Shale and top of Salt #22 was picked at 7944'. Clastic #22 was at 7957' and consisted of dolomite and anhydrite. Salt #23 was encountered at 7974' with the salt being light pink to peach colored, crystalline and largely opaque. Clastic #23 from 8004' to 8008' was thin and consisted of dolomite. A gas increase of 271 units was recorded. Salt #24 from 8008' to 8041' was similar in composition to Salt #23. Clastic #24 at 8041' to 8050' total depth, consisted of black shale, dolomite and anhydrite. The black shale was very black and sooty and mixed with the dolomite by bit action. Gas recorded from Clastic #24 peaked at 358 units. Mud weight at TD was 14.5 ppg.

The well was drilled to total depth of 8050'. Electric logs were run (Triple Combo & Micro image/sonic scanner) before plugging back with cement to 6800' in order to kick off sidetrack lateral #1.

HORIZONTAL LATERAL & SIDETRACK # 2

The horizontal lateral was directionally drilled from a kick off point of 7270' and topped the Cane Creek Shale at 8054' md, 7849' tvd. Gas increased to 229 units then decreased to 150 units. Landing was in the lower A zone at 8158' md with a hole inclination of 78.5 degrees. After tripping out to pick up a lateral BHA, drilling continued forward through the B1 "hot" shale and into the B zone target dolomite. Gas varied from 242 to 187 units. Mud weight varied from 14.7 to 14.5 ppg.

The well path followed the flat to gently downward dipping formation to 8630' where the dip increased such that the bit drilled into and followed the basal part of the B1 black, "hot" shale. Gamma readings increased to over 200 cps and gas from the black organic shale averaged 350 units with variable peaks over 500 units. The hole inclination going forward from this point was 86 to 84 degrees and the azimuth was a steady 268 to 270 degrees. At 9000' the hole suddenly started deviating in direction to the north at approximately 8 deg. per 100'. To keep from violating the 660' hard line limit to the north, the decision was made at 9221' to pull back to 8410 feet and sidetrack the hole.

At 8410' the azimuth was slowly changed from 270 to 259 degrees at 8962' to gain distance from the hard line limit, then slowly brought back to 270 degrees to parallel the original well plan direction. The hole followed the gentle downward dipping formation staying generally in the upper half of the target dolomite zone to 9400'. Background gas varied from 150 to 200 units throughout most of the interval. Mud weight was 14.1 to 14.0 ppg and ECD 14.63 ppg.

From 9400' to 9900' the dip changed to an updip. The hole inclination initially was unable to match this dip change and the lower half of the B target dolomite was drilled and the underlying C1 anhydrite was penetrated at 9630'. At 9700' the B dolomite was again drilled as the hole inclination turned to follow the upward dipping formation. Background gas in the lower half of the B dolomite varied from 100 to 150 units with connection gas increases over 200 units. Mud weight was 13.8 ppg and ECD 14.38 ppg.

The formation dip reversed and started to dip downward at 9900' and as the hole inclination could not be turned in time to follow the dip, the B1 "hot" black shale that marks the top of the B zone was penetrated at 9980'. The hole inclination was turned downward while drilling the A1 "warm" black shale so that the B1 shale was again drilled at 10,170' and the target dolomite at 10,250'. This situation was helped by the dip having changing again to an updip. Background gas increased from 100 to 400 units, liberated by drilling these black organic source rocks. Mud weight was 13.8 ppg.

From 10,360' to 10950'. Background gas was consistently above 200 units with much of the interval 300 units, with peaks to 400 units. Dip was upward at 4 to 5 degrees. As the dip flattened from 10,950' to 11,365' total depth, the background gas decreased to 100-150 units. The entire interval drilled was in the B dolomite. Mud weight varied from 13.8 to 13.6 ppg with ECD of 14.3 ppg.

Production potential is not predictable in this area based on drilling shows.

Hal Schmidt, Geologist, LLC

10 Heather Way,

Golden, CO 80401

hasgeo@q.com

303-279-4013 office/home

303-919-7822 cell

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

DAY	DATE 2014	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	Mud Losses	24 HR ACTIVITY	FORMATION
1	15-May	1,238'	0'	1	n/a	Drilled 17 1/2" hole to 1238', Ran and cemented 13 3/8" casing at 1226'. Nipple up BOP equipment and pressure test BOP.	Moenkopi
2	16-May	1,238'	285'	2	0	Finish Pressure testing BOP equipment. Pick up Hammer bit & BHA. TIH, tag cement top at 1166', blow hole dry. Drill cement and shoe to 1238'. Drill vertical section with air mist from 1238' to 1523'.	Moenkopi
3	17-May	1,523'	836'	2	0	Drill vertical section with air mist from 1523' to 2359'. Hit 200 bbl/hr water flow at 1719'.	Cutler
4	18-May	2,359'	862'	2	0	Drill vertical section from 2359' to 3221'. Having to increase air volume in order to drill and handle fresh water flow from White Rim SS	Honaker Trail
5	19-May	3,221'	769'	2	0	Drill vertical section from 3221' to 3990', air volume now at 6000 cfm.	Honaker Trail
6	20-May	3,990'	157'	3	0	Drill from 3990' to 4036', TOH, lay down hammer bit, P.U. tri-cone bit & mud motor, trip in hole, drill w/ aerated water from 4036' to 4147'	Honaker Trail
7	21-May	4,147'	610'	3	0	Drill from 4147' to 4757', Paradox at 4403', Salt #1 at 4605'. Hauling off excess fresh water for road and location dust control.	Paradox
8	22-May	4,757'	163'	3	0	Drill from 4757' to intermediate casing point of 4920'. Clastic #1 at 4798', Salt #2 at 4885'. Circulate hole clean, short trip to 3100' and back to btm, pump sweep, TOH, Rig up and run 9 5/8" casing to 4909.	Paradox
9	23-May	4,920'	0'	3	0	Reinject all salt water down hole, re-fill active system with fresh CaCl water to displace cement, Rig up and pump primary cement job, WOC, set pack off, pressure test cement, pump cement top job, run gyro survey of hole.	Paradox
10	24-May	4,920'	10'	4	0	Rig down blooie line, rig up flow line, install orbit valve and catch pan. Install wear bushing, make up BHA, pick up drill pipe, pressure test casing, TIH, drill cement, float, shoe and 10' of formation. FIT to 18 EMW, clean mud tanks and change active system from water to OBM.	Paradox
11	25-May	4,930'	1,023'	4	0	Finish changing over to OBM system. Drill ahead from 4930' to 5953'.	Paradox
12	26-May	5,953'	1,003'	4	0	Drill from 5953' to 6956'. Mud pump #2 down. Trip into casing @ 4865' to work on pump.	Paradox

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

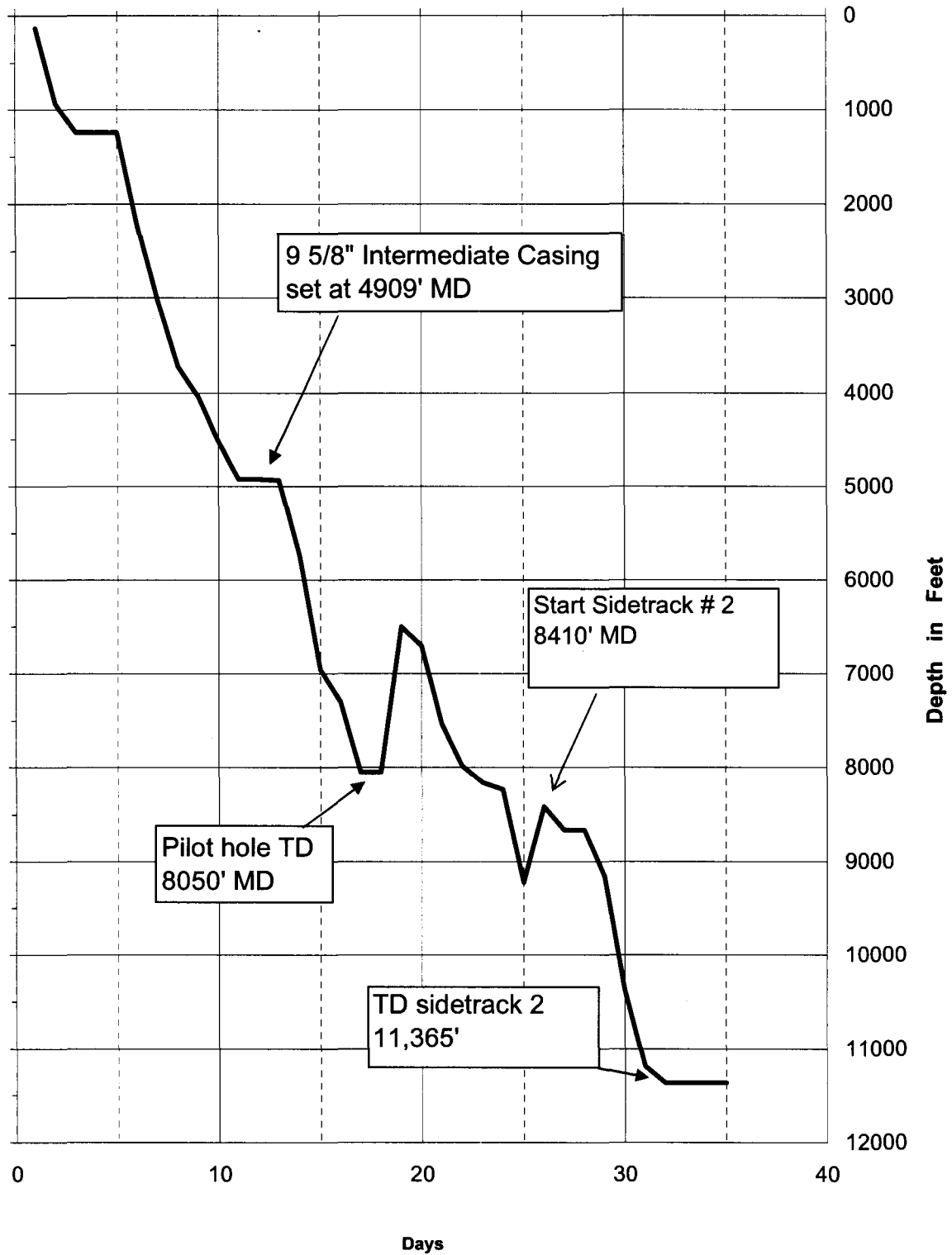
DAY	DATE 2014	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	Mud Losses	24 HR ACTIVITY	FORMATION
13	27-May	6,956'	677'	4	0	Replace module in mud pump #2. Trip to bottom. 6000 units downtime gas, Drill ahead from 6956' to 7633'	Paradox
14	28-May	7,633'	417'	4	0	Drill from 7633' to 8050' Total Depth for Pilot Hole. Make wiper trip to casing shoe, circulate hole clean, short trip gas 755 units, TOH for electric logs.	Paradox
15	29-May	8,050'	0'	4	0	Rig up electric loggers, run #1 Triple Combo, run #2 Sonic Micro Imager, rig down loggers, pick up and run 1230' of 2 7/8" tubing. Trip out and stand back tubing. RIH WITH BHA and 6 1/2" DC'S, POH & lay down dc's and BHA. Make up bit, float and P.U. 4 1/2 Drill pipe.	Paradox
16	30-May	8,050'	-1,550'	4	0	Run in hole picking up 4 1/2" D.P., Trip out and rack back drillpipe stands, Rig up and run cement bond log. Trip in hole with tubing and drill pipe to btm. Circulate btms up, pump cement plug, pull out of hole to 6500', circulate excess cement out of hole.	Paradox
17	31-May	6,500'	410'	5	0	Trip out of hole & lay down tubing, Rig up Cameron testers and test BOP'S. WOC, make up curve BHA, TIH tag cement at 6700', drilled cement to 6910'.	Paradox
18	1-Jun	6,910'	744'	5	0	Drill cement to 7270'. Kick off and drill 100% formation at 7315'. Drill through Clastic 17, 18/19 to 7654' in Salt # 20.	Paradox
19	2-Jun	7,654'	441'	5	0	Drill 7654' through Clastic 20 and into top of Cane Creek Shale at 8054' to 8095'.	Paradox
20	3-Jun	8,095'	63'	5	0	Drill from 8095' to 8158' where BHA ceased drilling, stalling out the top drive etc. Called landing at 8158' at est. 78.5 deg. inclination. Circulated hole, made wiper trip to 7270' kick off point and back to bottom. Tripped out of hole.	Paradox
21	4-Jun	8,158'	212'	6	0	Layed down curve BHA, discovered hole in float sub, picked up new lateral BHA with ipzig gamma tool, TIH to 7900', prep to relog Cane Creek interval. Logged with pzig gamma tool from 8044' to 8158'. Drilled new hole from 8158' to 8370'	Paradox
22	5-Jun	8,370'	766'	6	0	Drilled lateral section from 8370' to 9136'	Paradox
23	6-Jun	9,136'	-726'	6	0	Drilled from 9136' to 9221'. Azimuth direction change of 9 degrees to the north indicated 660' hardline would be crossed if drilling continued. Decision was made to pull back to 8410' and open hole sidetrack to correct hole direction.	Paradox

DAILY DRILLING SUMMARY
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

DAY	DATE 2014	DEPTH 06:00 HRS	24 HR FOOTAGE	BIT #	Mud Losses	24 HR ACTIVITY	FORMATION
24	7-Jun	8,410'	253'	6	0	Time drilled from 8410' to 8434'. Drilled ahead sliding and rotating as needed to 8663' where a rig power outage occurred at midnight.	Paradox
25	8-Jun	8,663'	57'	6	0	Electrician working on electric power repairs. Repairs completed. Drilled ahead to 8720'	Paradox
26	9-Jun	8,720'	608'	6	0	Drilled from 8720' to 9328', sliding and rotating.	Paradox
27	10-Jun	9,328'	622'	6	0	Drilled from 9328' to 9950', no problems	Paradox
28	11-Jun	9,950'	643'	6	0	Drilled ahead from 9950' to 10,593'.	Paradox
29	12-Jun	10,593'	772'	6	0	Drilled from 10,593' to 11,365' where total depth was called.	Paradox
30	13-Jun	11,365'	0'	6	0	Circulated bottoms up and cleaned hole. Pull out to 8410', work pipe through open hole sidetrack area until sidetrack hole can be easily accessed from any direction with out using pumps	Paradox
31	14-Jun	11,365'	TD	6	0	Working pipe 8410' to 8500'. Trip to bottom, circ hole, trip gas 690 units, trip out to top curve @ 8000', circulate, 1143 units gas, rack pipe in L shape, TOH. Lay down directional tools	Paradox
32	15-Jun	11,365'	TD		0	Lay down drill pipe, Rig up casing running equipment, running 7" casing.	Paradox
33	16-Jun	11,365'	TD		0	Ran casing to 7200', stop and circulate at top of curve, 2450 units trip gas, continue running csg to btm. Rig up cementers and cement casing in place. Geologists released.	Paradox

[illegible]

TIME VS DEPTH
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18



FORMATION TOPS
FIDELITY EXPLORATION AND PRODUCTION
CANE CREEK UNIT ST # 16-2-25-18

Well Name:	Fidelity CCU ST # 16-2-25-18				
Location:	NE NE Sec 16, T25S, R 18E				
Elevation:	KB:	5,297'	5,297	5,297	
FORMATION	Prognosis	Prognosis Subsea	Sample top	Subsea	Interval
/ ZONE					
Kayenta	334'	4,963'	210	5,087	210'
Wingate	464'	4,833'	420	4,877	310'
Chinle	789'	4,508'	730	789	505'
Moenkopi	1,181'	4,116'	1,235	1,181	385'
Cutler	1,748'	3,549'	1,620'	3,677	1,384'
Honaker Trail	3,138'	2,159'	3,004'	2,293	1,399'
Paradox Formation	4,411'	886'	4,403'	894	202'
Salt 1	4,641'	656'	4,605'	692	193'
Clastic 1	4,891'	406'	4,798'	499	87'
Salt 2	4,966'	331'	4,885'	412	35'
Intermediate Casing Pt.	4,986'	311'	4,920'	377	14'
Clastic 2	5,051'	246'	4,934'	363	84'
Salt 3	5,116'	181'	5,018'	279	67'
Clastic 3	5,186'	111'	5,085'	212	35'
Salt 4	5,231'	66'	5,120'	177	126'
Clastic 4	5,356'	-59'	5,246'	51	67'
Salt 5	5,421'	-124'	5,313'	-16	207'
Clastic 5	5,636'	-339'	5,520'	-223	36'
Salt 6	5,664'	-367'	5,556'	-259	103'
Clastic 6	5,746'	-449'	5,659'	-362	14'
Salt 7	5,755'	-458'	5,673'	-376	75'
Clastic 7	5,796'	-499'	5,748'	-451	89'
Salt 8	5,852'	-555'	5,837'	-540	149'
Clastic 8	5,987'	-690'	5,986'	-689	90'
Salt 9	6,040'	-743'	6,076'	-779	166'
Clastic 9	6,195'	-898'	6,242'	-689	41'
Salt 10	6,235'	-938'	6,283'	-779	8'
Clastic 10	6,285'	-988'	6,291'	-945	84'
Salt 11	6,329'	-1,032'	6,376'	-986	
Clastic 11	6,412'	-1,115'	n/a		
Salt 12	6,429'	-1,132'	6,376'	-1,079	304'
Clastic 12	6,554'	-1,257'	6,680'	-1,383	30'
Salt 13	6,574'	-1,277'	6,710'	-1,413	60'
Clastic 13	6,659'	-1,362'	6,770'	-1,473	10'
Salt 14	6,679'	-1,382'	6,780'	-1,483	77'
Clastic 14	6,729'	-1,432'	6,857'	-1,560	50'
Salt 15	6,749'	-1,452'	6,907'	-1,610	151'
Clastic 15	6,894'	-1,597'	7,058'	-1,761	20'
Salt 16	6,914'	-1,617'	7,078'	-1,781	44'
Clastic 16	6,949'	-1,652'	7,122'	-1,825	10'
Salt 17	6,961'	-1,664'	7,132'	-1,835	260'
Clastic 17	7,226'	-1,929'	7,392'	-2,095	23'
Salt 18	7,242'	-1,945'	7,415'	-2,118	153'
Clastic 18	7,482'	-2,185'	7,568'	-2,271	70'
Salt 19	7,507'	-2,210'			
Clastic 19	7,517'	-2,220'	7,568'	-2,271	70'
Salt 20	7,557'	-2,260'	7,638'	-2,341	87'
Clastic 20	7,687'	-2,390'	7,725'	-2,428	11'
Salt 21	7,705'	-2,408'	7,736'	-2,439	120'
Top Cane Creek Shale	7,880'	-2,583'	7,856'	-2,559	38'
Cane Creek Shale B	7,906'	-2,609'	7,894'	-2,597	4'
Horizontal Target	7,920'	-2,623'	7,898'	-2,601	46'
Base Cane Creek Shale	7,965'	-2,668'	7,944'	-2,647	30'
Salt 23	7,985'	-2,688'	7,974'	-2,601	76'
TD	8,074'	-2,777'	8,050'	-2,753	

FIDELITY EXPLORATION AND PRODUCTION
INVERT MUD REPORTS
CANE CREEK UNIT ST # 16-2-25-18

DATE 2014	DEPTH	Flow Line Temp	WT	FV	PV	YP	GELS	API FILT	OIL/WATER	ELECTRIC STABILITY	CORRECTED SOLIDS	NaCl % wt	CaCl2 % wt	MgCl2 % wt	24 HOUR MUD LOSSES
25-May	5090	89	13.60	52	23	16	12/15	2	83.8/16.2	682	24.30	3.00	8.1	0.30	0
26-May	5792	90	13.60	49	24	15	11/15	2	85.1/14.9	692	23.80	3.10	31.4	3.70	0
26-May	6596	106	13.60	45	24	13	10/14	2	85.7/14.3	619	24.40	3.00	31.50	3.10	0
27-May	6956	91	14.00	49	24	15	12/15	2	86/14	741	26.50	3.30	30.90	3.10	0
31-May	6800	80	14.70	50	26	16	11/16	2	87.1/12.9	n/a	28.70	1.60	28.70	2.00	0
1-Jun	6910	n/a	14.70	59	30	15	12/16	2	84.8/15.2	595	29.10	3.20	31	1.80	0
1-Jun	7322	100	14.50	52	29	15	12/16	2	85.7/14.3	580	30.00	1.90	34.8	1.80	0
2-Jun	7587	110	14.50	50	20	15	12/16	2	85.0/15.0	N/A	30.00	2.40	33.1	1.80	0
2-Jun	7776	110	14.50	50	28	15	12/17	2	85.0/15.0	645	28.00	2.30	33.6	1.80	0
3-Jun	8,060	118	14.50	50	28	15	12/17	2	85.5/14.5	700	29.10	2.00	34.3	1.80	0
3-Jun	8152	120	14.50	48	27	15	12/17	2	85.6/14.4	737	28.60	2.40	33.3	1.80	0
4-Jun	8158	n/a	14.50	49	25	17	12/17	2	85.4/14.6	797	29.60	2.20	33.80	1.80	0
4-Jun	8158	n/a	14.70	55	26	16	12/17	2	86.0/14.0	868	30.00	1.37	36.4	2.60	0
5-Jun	8260	122	14.65	51	26	14	12/17	2	86.0/14.0	747	30.10	1.90	34.5	1.90	0
5-Jun	8568	122	14.50	47	27	14	12/17	2	86.4/13.6	754	28.10	2.40	33.2	2.50	0
6-Jun	9001	128	14.15	47	23	17	12/19	2	88.6/11.4	768	28.10	0.90	38.8	2.90	0
7-Jun	9222	125	14.10	47	26	14	13/19	2	88.7/11.3	808	27.50	1.40	39.9	0.70	0
8-Jun	8663	n/a	14.10	47	24	14	12/22	2	87.3/12.7	958	27.00	1.20	37.4	2.60	0
9-Jun	8910	119	14.10	50	25	14	13/24	2	87.3/12.7	1086	26.90	0.90	38.4	2.60	0
10-Jun	9206	131	14.00	48	26	13	12/25	2	87.3/12.7	1033	26.90	0.90	38.9	3.20	0
10-Jun	9580	131	13.80	46	26	14	12/24	2	89.0/11.0	1077	25.10	0.30	43.9	4.30	0
11-Jun	9865	130	13.80	46	26	14	12/24	2	89.0/11.0	1055	25.20	0.50	41.4	3.50	0
11-Jun	10173	142	13.80	47	25	14	12/22	2	88.6/11.4	1055	28.20	1.10	37.6	0.70	0
12-Jun	10485	133	13.80	48	26	14	12/23	2	85.9/14.1	837	27.10	2.10	33.9	1.20	0
12-Jun	10903	132	13.60	47	25	14	12/22	2	85.5/14.5	843	25.90	0.20	34.2	0.20	0
13-Jun	11272	136	13.80	47	25	14	12/22	2	87.1/12.9	835	28.20	0.00	37.7	0.90	35
14-Jun	8448	128	14.30	49	27	16	13/23	2	86.9/13.1	932	29.50	0.00	38.2	2.40	0
15-Jun	11365	n/a	14.55	53	28	16	14/24	2	87.4/12.6	908	30.50	0.00	39.6	2.50	0

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____ b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____				5. LEASE DESIGNATION AND SERIAL NUMBER: ML44333	
2. NAME OF OPERATOR: Fidelity E & P Company				6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT or CA AGREEMENT NAME Cane Creek	
3. ADDRESS OF OPERATOR: 1801 California St. STE # CITY Denver STATE CO ZIP 80202				8. WELL NAME and NUMBER: Cane Creek Unit 16-2-25-18	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 885' FNL 708' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 734' FNL 1183' FEL AT TOTAL DEPTH: 785' FNL 858' FWL				9. API NUMBER: 4301950046 10. FIELD AND POOL, OR WILDCAT Cane Creek	
14. DATE SPUDDED: 5/13/2014				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 16 25S 18E S	
15. DATE T.D. REACHED: 6/13/2014				12. COUNTY Grand	
16. DATE COMPLETED: 9/18/2014				13. STATE UTAH	
17. ELEVATIONS (DF, RKB, RT, GL): 5274				18. TOTAL DEPTH: MD 11,365 TVD 7,858	
19. PLUG BACK T.D.: MD TVD				20. IF MULTIPLE COMPLETIONS, HOW MANY? *	
21. DEPTH BRIDGE MD PLUG SET: TVD				22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)	
23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)					

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2"	13 3/4" J-55	68.0	27	1,226		Type II 917	353		
12.5"	9 5/8" HCB	47.0	26	4,909		Type II 625	230		
8.5"	7" HCB	29.0/32.0	25	11,352		Class II 840	189	4700	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	8,100	7,282						

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Cane Creek	8,054	8,290			8,100 11,280	.35	15,200	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☐ NO ☒ IF YES -- DATE FRACTURED: _____

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

TA

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE: 9/19/2014		HOURS TESTED: 77		TEST PRODUCTION RATES: →		OIL - BBL: 0		GAS - MCF: 0		WATER - BBL: 0		PROD. METHOD: swab	
CHOKE SIZE:	TBG. PRESS. 0	CSG. PRESS. 2,100	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →		OIL - BBL: 0		GAS - MCF: 0		WATER - BBL: 0		INTERVAL STATUS:	

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: ➡	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TDB, PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: ➡	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

N/A

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cased intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Wingate	397	732	SS no formation fluids encountered	Wingate	397
White Rim Membr	1,656	1,855	SS- water	Chinle	732
Honaker Trail	3,086	4,412	LS/SS/Silt/SH- water?	Moenkopi	1,110
Paradox	4,412		Salt/ANHY/SH/Silt/DOL-Salt/brine water	Cutler (White Rim)	1,656
Cane Creek	7,853	7,944	SH/Silt/DOL/ANHY-Oil, gas	Honaker Trail	3,086
				Paradox	4,412
				Salt 1 (Top salt)	4,600
				Salt 2	4,880
				Cane Creek	7,853

35. ADDITIONAL REMARKS (Include plugging procedure)


This well was not productive. Paradox formation bottom MD- NDE (well not deep enough)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Renee Kendrick

TITLE Environmental Project Specialist

SIGNATURE



DATE 7/20/2015

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Cane Creek Unit 16-2-25-18API number: 4301950046Well Location: QQ NENE Section 16 Township 25S Range 18E County GrandWell operator: Fidelity Exploration & Production Co.Address: 1801 California Street, Suite 2500city Denverstate CO zip 80202Phone: 720-956-5752Drilling contractor: Nabors DrillingAddress: 515 West Greens Road, Suite 1000city Houstonstate TX zip 77067Phone: 281-874-0035

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
1700	4000	100-200 BBLS/HR	unknown

Formation tops:
(Top to Bottom)

1	<u>Wingate 397'</u>	2	<u>Chinle 732'</u>	3	<u>Moenkopi 1110'</u>
4	<u>White Rim (culter) 1856'</u>	5	<u>Honaker Trail 3086'</u>	6	<u>Paradox 4412'</u>
7	<u>Salt 1 4600'</u>	8	<u>Cane Creek 7853'</u>	9	<u></u>
10	<u></u>	11	<u></u>	12	<u></u>

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Renee KendrickTITLE Environmental Project SpecialistSIGNATURE Renee KendrickDATE 7/20/2015



CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive Survey Geodetic Report (Def Survey)



Report Date: July 16, 2014 - 12:13 PM
Client: Fidelity
Field: UT, Grand County (NAD 83 CZ)
Structure / Slot: Fidelity 16-25S-18E (CC 16-2-25-18 State) - Nabors M40 / CCU State 16-2-25-18H
Well: CCU 16-2-25-18H State
Borehole: Pilot Hole
UWI / APW: Unknown / Unknown
Survey Name: CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
Survey Date: May 30, 2014
Tort / AHD / DDI / ERD Ratio: 34.389 ° / 286.222 ft / 3.994 / 0.036
Coordinate Reference System: NAD83 Utah State Plane, Central Zone, US Feet
Location Lat / Long: N 38° 38' 5.66440", W 109° 55' 57.52660"
Location Grid N/E Y/X: N 6675429.366 ftUS, E 2088178.667 ftUS
CRS Grid Convergence Angle: 1.0040 °
Grid Scale Factor: 1.00011605
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 0.000 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 5297.000 ft above MSL
Seabed / Ground Elevation: 5274.000 ft above MSL
Magnetic Declination: 10.782 °
Total Gravity Field Strength: 998.8157 mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51124.091 nT
Magnetic Dip Angle: 64.597 °
Declination Date: May 30, 2014
Magnetic Declination Model: BGGM 2014
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 10.7816 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	6675429.37	2088178.67	N 38 38 5.56	W 109 55 57.53
Begin GYRO Survey	100.00	0.32	318.56	100.00	0.21	0.21	-0.18	0.32	6675429.57	2088178.48	N 38 38 5.57	W 109 55 57.53
	200.00	0.18	326.93	200.00	0.55	0.55	-0.45	0.15	6675429.91	2088178.21	N 38 38 5.57	W 109 55 57.53
	300.00	0.03	318.76	300.00	0.71	0.71	-0.55	0.15	6675430.06	2088178.11	N 38 38 5.57	W 109 55 57.53
	400.00	0.06	343.82	400.00	0.78	0.78	-0.58	0.04	6675430.13	2088178.07	N 38 38 5.57	W 109 55 57.53
	500.00	0.09	19.65	500.00	0.90	0.90	-0.57	0.05	6675430.26	2088178.08	N 38 38 5.57	W 109 55 57.53
	600.00	0.17	5.40	600.00	1.12	1.12	-0.53	0.09	6675430.48	2088178.12	N 38 38 5.58	W 109 55 57.53
	700.00	0.05	302.15	700.00	1.29	1.29	-0.55	0.15	6675430.65	2088178.09	N 38 38 5.58	W 109 55 57.53
	800.00	0.02	331.50	800.00	1.33	1.33	-0.60	0.03	6675430.69	2088178.05	N 38 38 5.58	W 109 55 57.53
	900.00	0.21	270.36	900.00	1.35	1.35	-0.79	0.20	6675430.70	2088177.85	N 38 38 5.58	W 109 55 57.54
	1000.00	0.32	214.97	1000.00	1.12	1.12	-1.13	0.26	6675430.47	2088177.52	N 38 38 5.58	W 109 55 57.54
	1100.00	0.24	145.35	1100.00	0.72	0.72	-1.17	0.33	6675430.07	2088177.48	N 38 38 5.57	W 109 55 57.54
13 5/8" Casing Point	1200.00	0.20	145.84	1199.99	0.40	0.40	-0.96	0.04	6675429.75	2088177.70	N 38 38 5.57	W 109 55 57.54
	1300.00	0.39	164.94	1299.99	-0.07	-0.07	-0.77	0.21	6675429.28	2088177.90	N 38 38 5.56	W 109 55 57.54
	1400.00	0.53	172.04	1399.99	-0.86	-0.86	-0.62	0.15	6675428.50	2088178.06	N 38 38 5.56	W 109 55 57.53
	1500.00	0.53	175.27	1499.99	-1.77	-1.77	-0.51	0.03	6675427.58	2088178.18	N 38 38 5.55	W 109 55 57.53
	1600.00	0.32	190.07	1599.98	-2.51	-2.51	-0.53	0.24	6675426.85	2088178.19	N 38 38 5.54	W 109 55 57.53
	1700.00	0.22	288.01	1699.98	-2.73	-2.73	-0.76	0.41	6675426.63	2088177.96	N 38 38 5.54	W 109 55 57.54
	1800.00	0.49	297.52	1799.98	-2.47	-2.47	-1.32	0.28	6675426.87	2088177.39	N 38 38 5.54	W 109 55 57.54
	1900.00	0.39	270.94	1899.98	-2.27	-2.27	-2.04	0.22	6675427.06	2088176.67	N 38 38 5.54	W 109 55 57.55
	2000.00	0.41	263.06	1999.98	-2.37	-2.37	-2.72	0.13	6675426.95	2088175.99	N 38 38 5.54	W 109 55 57.56
	2100.00	0.36	262.32	2099.97	-2.56	-2.56	-3.36	0.05	6675426.74	2088175.35	N 38 38 5.54	W 109 55 57.57
	2200.00	0.60	222.97	2199.97	-3.04	-3.04	-4.02	0.34	6675426.25	2088174.70	N 38 38 5.53	W 109 55 57.58
	2300.00	0.55	218.79	2299.96	-3.80	-3.80	-4.68	0.07	6675425.48	2088174.06	N 38 38 5.53	W 109 55 57.58
	2400.00	0.50	205.72	2399.96	-4.57	-4.57	-5.17	0.13	6675424.71	2088173.58	N 38 38 5.52	W 109 55 57.59
	2500.00	0.48	188.77	2499.96	-5.37	-5.37	-5.42	0.15	6675423.90	2088173.34	N 38 38 5.51	W 109 55 57.59
	2600.00	0.57	197.55	2599.95	-6.26	-6.26	-5.63	0.12	6675423.00	2088173.14	N 38 38 5.50	W 109 55 57.60
	2700.00	0.53	195.28	2699.95	-7.18	-7.18	-5.90	0.05	6675422.08	2088172.89	N 38 38 5.49	W 109 55 57.60
	2800.00	0.34	180.75	2799.95	-7.93	-7.93	-6.03	0.22	6675421.33	2088172.78	N 38 38 5.49	W 109 55 57.60
	2900.00	0.60	176.18	2899.94	-8.75	-8.75	-6.00	0.26	6675420.52	2088172.62	N 38 38 5.48	W 109 55 57.60
	3000.00	0.75	172.61	2999.93	-9.92	-9.92	-5.88	0.16	6675419.35	2088172.96	N 38 38 5.47	W 109 55 57.60
	3100.00	0.70	186.92	3099.93	-11.17	-11.17	-5.87	0.19	6675418.09	2088172.99	N 38 38 5.45	W 109 55 57.60
	3200.00	0.81	198.77	3199.92	-12.45	-12.45	-6.17	0.19	6675416.81	2088172.71	N 38 38 5.44	W 109 55 57.60
	3300.00	0.65	188.90	3299.91	-13.68	-13.68	-6.49	0.20	6675415.58	2088172.42	N 38 38 5.43	W 109 55 57.61
	3400.00	0.62	197.94	3399.90	-14.75	-14.75	-6.74	0.10	6675414.50	2088172.18	N 38 38 5.42	W 109 55 57.61
	3500.00	0.63	202.66	3499.90	-15.77	-15.77	-7.12	0.05	6675413.47	2088171.82	N 38 38 5.41	W 109 55 57.62
	3600.00	0.59	199.75	3599.89	-16.77	-16.77	-7.50	0.05	6675412.47	2088171.46	N 38 38 5.40	W 109 55 57.62
	3700.00	0.59	198.98	3699.89	-17.74	-17.74	-7.85	0.01	6675411.49	2088171.13	N 38 38 5.39	W 109 55 57.62
	3800.00	0.52	199.03	3799.88	-18.65	-18.65	-8.16	0.07	6675410.57	2088170.83	N 38 38 5.38	W 109 55 57.63
	3900.00	0.56	217.66	3899.88	-19.47	-19.47	-8.61	0.18	6675409.75	2088170.40	N 38 38 5.37	W 109 55 57.63
	4000.00	0.53	228.71	3999.87	-20.16	-20.16	-9.25	0.11	6675409.04	2088169.77	N 38 38 5.37	W 109 55 57.64
	4100.00	0.51	229.13	4099.87	-20.76	-20.76	-9.94	0.02	6675408.43	2088169.09	N 38 38 5.36	W 109 55 57.65
	4200.00	0.56	234.62	4199.86	-21.33	-21.33	-10.67	0.07	6675407.85	2088168.37	N 38 38 5.35	W 109 55 57.66
	4300.00	0.73	219.58	4299.86	-22.11	-22.11	-11.48	0.24	6675407.06	2088167.58	N 38 38 5.35	W 109 55 57.67
	4400.00	0.82	220.73	4399.85	-23.14	-23.14	-12.35	0.09	6675406.01	2088166.72	N 38 38 5.34	W 109 55 57.68
	4500.00	0.67	228.25	4499.84	-24.07	-24.07	-13.25	0.18	6675405.06	2088165.84	N 38 38 5.33	W 109 55 57.69
	4600.00	0.87	124.66	4599.84	-24.89	-24.89	-13.07	1.22	6675404.25	2088166.04	N 38 38 5.32	W 109 55 57.69
	4700.00	1.77	100.36	4699.81	-25.60	-25.60	-10.92	1.04	6675403.57	2088168.19	N 38 38 5.31	W 109 55 57.66
Last GYRO Survey	4800.00	1.98	75.52	4799.76	-25.45	-25.45	-7.73	0.83	6675403.78	2088171.38	N 38 38 5.31	W 109 55 57.62
Begin GPIT Survey	4859.00	1.94	54.88	4858.72	-24.62	-24.62	-5.93	1.19	6675404.64	2088173.17	N 38 38 5.32	W 109 55 57.60
	4869.00	1.96	184.28	4868.72	-24.84	-24.84	-5.55	11.75	6675404.43	2088173.55	N 38 38 5.32	W 109 55 57.60
9 5/8" Casing Point	4909.00	0.97	62.12	4908.71	-25.10	-25.10	-5.43	13.03	6675404.17	2088173.68	N 38 38 5.32	W 109 55 57.59
	4919.00	2.14	39.30	4918.71	-24.92	-24.92	-5.23	13.03	6675404.36	2088173.87	N 38 38 5.32	W 109 55 57.59
	4949.00	2.30	42.90	4948.68	-24.04	-24.04	-4.47	0.71	6675405.25	2088174.62	N 38 38 5.33	W 109 55 57.58
	4979.00	2.41	42.60	4978.66	-23.14	-23.14	-3.63	0.37	6675406.17	2088175.44	N 38 38 5.34	W 109 55 57.57
	5009.00	2.55	40.68	5008.63	-22.17	-22.17	-2.77	0.54	6675407.15	2088176.29	N 38 38 5.35	W 109 55 57.56
	5039.00	2.65	37.02	5038.60	-21.11	-21.11	-1.92	0.65	6675408.23	2088177.12	N 38 38 5.36	W 109 55 57.55
	5069.00	2.74	33.27	5068.57	-19.95	-19.95	-1.11	0.66	6675409.39	2088177.91	N 38 38 5.37	W 109 55 57.54
	5099.00	2.83	32.98	5098.53	-18.73	-18.73	-0.31	0.30	6675410.63	2088178.69	N 38 38 5.38	W 109 55 57.53
	5129.00	2.89	32.07	5128.49	-17.47	-17.47	0.50	0.25	6675411.91	2088179.47	N 38 38 5.39	W 109 55 57.52
	5159.00	3.15	28.86	5158.45	-16.11	-16.11	1.30	1.03	6675413.28	2088180.24	N 38 38 5.41	W 109 55 57.51
	5189.00	3.50	26.94	5188.40	-14.57	-14.57	2.11	1.22	6675414.83	2088181.03	N 38 38 5.42	W 109 55 57.50
	5219.00	3.78	26.02	5218.34	-12.86	-12.86	2.96	0.95	6675416.55	2088181.85	N 38 38 5.44	W 109 55 57.49
	5249.00	3.98	25.19	5248.27	-11.03	-11.03	3.83	0.69	6675418.40	2088182.69	N 38 38 5.46	W 109 55 57.48
	5279.00	4.16	24.93	5278.20	-9.10	-9.10	4.74	0.60	6675420.35	2088183.56	N 38 38 5.47	W 109 55 57.47
	5309.00	4.27	24.75	5308.12	-7.10	-7.10	5.66	0.37	6675422.36	2088184.45	N 38 38 5.49	W 109 55 57.45
	5339.00	4.36	23.61	5338.03	-5.04	-5.04	6.59	0.41	6675424.44	2088185.34	N 38 38 5.51	W 109 55 57.44
	5369.00	4.51	22.20	5367.94	-2.91	-2.91	7.49	0.62	6675426.59	2088186.21	N 38 38 5.54	W 109 55 57.43
	5399.00	4.70	21.56	5397.84	-0.67	-0.67	8.39	0.66	6675428.84	2088187.06	N 38 38 5.56	W 109 55 57.42
	5429.00	4.88	22.11	5427.74	1.65	1.65	9.32	0.62	6675431.18	2088187.95	N 38 38 5.58	W 109 55 57.41
	5459.00	5.03	23.00	5457.63	4.05	4.05	10.31	0.56	6675433.59	2088188.91	N 38 38 5.60	W 109 55 57.40
	5489.00	5.17	23.80	5487.51	6.49	6.49	11.37	0.52	6675436.06	2088189.92	N 38 38 5.63	W 109 55 57.38
	5519.00	5.27	23.97	5517.38	8.99	8.99	12.48	0.34	6675438.57	2088190.98	N 38 38 5.65	W 109 55 57.37

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	5549.00	5.41	24.68	5547.26	11.53	11.53	13.63	0.52	6675441.14	2088192.09	N 38 38	5.68 W 109 55 57.35
	5579.00	5.52	24.82	5577.12	14.13	14.13	14.82	0.37	6675443.75	2088193.24	N 38 38	5.70 W 109 55 57.34
	5609.00	5.64	23.96	5606.98	16.78	16.78	16.03	0.49	6675446.43	2088194.40	N 38 38	5.73 W 109 55 57.32
	5639.00	5.74	23.48	5636.83	19.51	19.51	17.22	0.37	6675449.17	2088195.55	N 38 38	5.76 W 109 55 57.31
	5669.00	5.70	23.14	5666.68	22.25	22.25	18.41	0.17	6675451.94	2088196.68	N 38 38	5.78 W 109 55 57.29
	5699.00	5.83	22.35	5696.53	25.03	25.03	19.57	0.51	6675454.74	2088197.80	N 38 38	5.81 W 109 55 57.28
	5729.00	5.88	20.93	5726.37	27.88	27.88	20.70	0.51	6675457.60	2088198.88	N 38 38	5.84 W 109 55 57.26
	5759.00	5.74	20.85	5756.22	30.71	30.71	21.78	0.47	6675460.46	2088199.91	N 38 38	5.87 W 109 55 57.25
	5789.00	5.61	20.06	5786.07	33.49	33.49	22.82	0.51	6675463.26	2088200.90	N 38 38	5.90 W 109 55 57.24
	5819.00	5.47	20.26	5815.93	36.21	36.21	23.82	0.47	6675465.99	2088201.85	N 38 38	5.92 W 109 55 57.23
	5849.00	5.40	20.71	5845.79	38.87	38.87	24.81	0.27	6675468.67	2088202.80	N 38 38	5.95 W 109 55 57.21
	5879.00	5.32	21.24	5875.66	41.49	41.49	25.81	0.31	6675471.31	2088203.75	N 38 38	5.97 W 109 55 57.20
	5909.00	5.26	20.91	5905.54	44.07	44.07	26.81	0.22	6675473.91	2088204.70	N 38 38	6.00 W 109 55 57.19
	5939.00	5.17	20.46	5935.41	46.62	46.62	27.77	0.33	6675476.47	2088205.62	N 38 38	6.03 W 109 55 57.18
	5969.00	5.10	19.71	5965.29	49.14	49.14	28.69	0.32	6675479.01	2088206.50	N 38 38	6.05 W 109 55 57.16
	5999.00	4.97	19.26	5995.17	51.63	51.63	29.57	0.45	6675481.51	2088207.33	N 38 38	6.07 W 109 55 57.15
	6029.00	4.83	19.99	6025.07	54.04	54.04	30.43	0.51	6675483.94	2088208.15	N 38 38	6.10 W 109 55 57.14
	6059.00	4.72	18.56	6054.96	56.40	56.40	31.26	0.54	6675486.31	2088208.94	N 38 38	6.12 W 109 55 57.13
	6089.00	4.70	18.16	6084.86	58.74	58.74	32.03	0.13	6675488.66	2088209.67	N 38 38	6.14 W 109 55 57.12
	6119.00	4.71	17.64	6114.76	61.08	61.08	32.79	0.15	6675491.02	2088210.39	N 38 38	6.17 W 109 55 57.11
	6149.00	4.66	17.27	6144.66	63.41	63.41	33.53	0.19	6675493.37	2088211.08	N 38 38	6.19 W 109 55 57.10
	6179.00	4.60	16.50	6174.56	65.73	65.73	34.23	0.27	6675495.69	2088211.74	N 38 38	6.21 W 109 55 57.09
	6209.00	4.56	14.74	6204.46	68.04	68.04	34.88	0.51	6675498.01	2088212.35	N 38 38	6.24 W 109 55 57.09
	6239.00	4.46	13.25	6234.37	70.33	70.33	35.45	0.51	6675500.31	2088212.88	N 38 38	6.26 W 109 55 57.08
	6269.00	4.29	12.41	6264.28	72.56	72.56	35.96	0.61	6675502.55	2088213.35	N 38 38	6.28 W 109 55 57.07
	6299.00	4.16	10.85	6294.20	74.72	74.72	36.40	0.58	6675504.72	2088213.76	N 38 38	6.30 W 109 55 57.07
	6329.00	4.01	8.29	6324.13	76.83	76.83	36.76	0.79	6675506.84	2088214.08	N 38 38	6.32 W 109 55 57.06
	6359.00	3.83	4.45	6354.06	78.87	78.87	36.99	1.06	6675508.88	2088214.27	N 38 38	6.34 W 109 55 57.06
	6389.00	3.69	1.95	6383.99	80.83	80.83	37.10	0.72	6675510.84	2088214.35	N 38 38	6.36 W 109 55 57.06
	6419.00	3.66	2.17	6413.93	82.75	82.75	37.17	0.11	6675512.76	2088214.38	N 38 38	6.38 W 109 55 57.06
	6449.00	3.65	2.49	6443.87	84.66	84.66	37.25	0.08	6675514.68	2088214.43	N 38 38	6.40 W 109 55 57.06
	6479.00	3.72	2.26	6473.81	86.59	86.59	37.33	0.24	6675516.60	2088214.47	N 38 38	6.42 W 109 55 57.06
	6509.00	3.72	359.68	6503.74	88.53	88.53	37.36	0.56	6675518.55	2088214.47	N 38 38	6.44 W 109 55 57.05
	6539.00	3.77	355.08	6533.68	90.49	90.49	37.27	1.01	6675520.51	2088214.35	N 38 38	6.46 W 109 55 57.06
	6569.00	3.79	350.65	6563.61	92.45	92.45	37.02	0.98	6675522.46	2088214.07	N 38 38	6.48 W 109 55 57.06
	6599.00	3.80	346.09	6593.55	94.39	94.39	36.62	1.01	6675524.40	2088213.63	N 38 38	6.50 W 109 55 57.06
	6629.00	3.85	342.36	6623.48	96.32	96.32	36.08	0.85	6675526.31	2088213.06	N 38 38	6.52 W 109 55 57.07
	6659.00	4.04	339.87	6653.41	98.27	98.27	35.41	0.85	6675528.25	2088212.35	N 38 38	6.54 W 109 55 57.08
	6689.00	4.26	339.08	6683.33	100.30	100.30	34.65	0.76	6675530.27	2088211.55	N 38 38	6.56 W 109 55 57.09
	6719.00	4.48	336.43	6713.25	102.42	102.42	33.78	1.00	6675532.37	2088210.65	N 38 38	6.58 W 109 55 57.10
	6749.00	4.58	332.62	6743.15	104.56	104.56	32.76	1.06	6675534.49	2088209.59	N 38 38	6.60 W 109 55 57.11
	6779.00	4.68	329.62	6773.05	106.68	106.68	31.59	0.87	6675536.59	2088208.39	N 38 38	6.62 W 109 55 57.13
	6809.00	4.78	326.90	6802.95	108.78	108.78	30.29	0.82	6675538.67	2088207.05	N 38 38	6.64 W 109 55 57.14
	6839.00	4.83	324.72	6832.85	110.86	110.86	28.88	0.63	6675540.72	2088205.60	N 38 38	6.66 W 109 55 57.16
	6869.00	4.82	324.59	6862.74	112.91	112.91	27.42	0.05	6675542.76	2088204.11	N 38 38	6.68 W 109 55 57.18
	6899.00	4.64	326.29	6892.64	114.95	114.95	26.01	0.76	6675544.77	2088202.67	N 38 38	6.70 W 109 55 57.20
	6929.00	4.61	326.70	6922.54	116.97	116.97	24.68	0.15	6675546.76	2088201.30	N 38 38	6.72 W 109 55 57.21
	6959.00	4.59	325.43	6952.44	118.96	118.96	23.34	0.35	6675548.73	2088199.92	N 38 38	6.74 W 109 55 57.23
	6989.00	4.60	324.75	6982.35	120.94	120.94	21.96	0.18	6675550.68	2088198.51	N 38 38	6.76 W 109 55 57.25
	7019.00	4.57	323.30	7012.25	122.88	122.88	20.55	0.40	6675552.60	2088197.07	N 38 38	6.78 W 109 55 57.27
	7049.00	4.64	322.59	7042.15	124.80	124.80	19.10	0.30	6675554.49	2088195.58	N 38 38	6.80 W 109 55 57.28
	7079.00	4.71	322.55	7072.05	126.74	126.74	17.62	0.23	6675556.41	2088194.06	N 38 38	6.82 W 109 55 57.30
	7109.00	4.75	321.67	7101.95	128.69	128.69	16.10	0.28	6675558.33	2088192.51	N 38 38	6.84 W 109 55 57.32
	7139.00	4.85	321.24	7131.85	130.66	130.66	14.63	0.35	6675560.27	2088190.91	N 38 38	6.86 W 109 55 57.34
	7169.00	4.83	320.36	7161.74	132.62	132.62	12.93	0.26	6675562.20	2088189.27	N 38 38	6.88 W 109 55 57.36
	7199.00	4.92	320.13	7191.63	134.58	134.58	11.30	0.31	6675564.14	2088187.61	N 38 38	6.89 W 109 55 57.38
	7229.00	4.93	319.15	7221.52	136.54	136.54	9.63	0.28	6675566.07	2088185.91	N 38 38	6.91 W 109 55 57.40
	7259.00	4.96	318.43	7251.41	138.48	138.48	7.93	0.23	6675567.98	2088184.17	N 38 38	6.93 W 109 55 57.43
	7289.00	4.88	317.37	7281.30	140.39	140.39	6.20	0.40	6675569.86	2088182.41	N 38 38	6.95 W 109 55 57.45
	7319.00	4.83	315.84	7311.19	142.24	142.24	4.46	0.46	6675571.68	2088180.63	N 38 38	6.97 W 109 55 57.47
	7349.00	4.78	314.52	7341.09	144.02	144.02	2.69	0.40	6675573.43	2088178.83	N 38 38	6.99 W 109 55 57.49
	7379.00	4.76	313.41	7370.98	145.75	145.75	0.89	0.31	6675575.13	2088177.01	N 38 38	7.01 W 109 55 57.51
	7409.00	4.67	312.28	7400.88	147.43	147.43	-0.91	0.43	6675576.77	2088175.17	N 38 38	7.02 W 109 55 57.54
	7439.00	4.64	311.11	7430.78	149.05	149.05	-2.73	0.33	6675578.36	2088173.32	N 38 38	7.04 W 109 55 57.56
	7469.00	4.61	309.87	7460.68	150.62	150.62	-4.57	0.35	6675579.90	2088171.46	N 38 38	7.05 W 109 55 57.58
	7499.00	4.47	307.26	7490.59	152.10	152.10	-6.43	0.83	6675581.35	2088169.57	N 38 38	7.07 W 109 55 57.61
	7529.00	4.37	306.09	7520.50	153.48	153.48	-8.28	0.45	6675582.70	2088167.70	N 38 38	7.08 W 109 55 57.63
	7559.00	4.24	305.63	7550.42	154.80	154.80	-10.11	0.45	6675583.98	2088165.85	N 38 38	7.09 W 109 55 57.65
	7589.00	4.12	307.83	7580.34	156.11	156.11	-11.86	0.67	6675585.26	2088164.07	N 38 38	7.11 W 109 55 57.68
	7619.00	4.14	309.91	7610.26	157.46	157.46	-13.54	0.50	6675586.59	2088162.37	N 38 38	7.12 W 109 55 57.70
	7649.00	4.18	310.71	7640.18	158.87	158.87	-15.20	0.23	6675587.96	2088160.68	N 38 38	7.13 W 109 55 57.72
	7679.00	4.40	310.90	7670.09	160.34	160.34	-16.90	0.73	6675589.40	2088158.96	N 38 38	7.15 W 109 55 57.74
	7709.00	4.57	309.17	7700.00	161.85	161.85	-18.69	0.72	6675590.88	2088157.14	N 38 38	7.16 W 109 55 57.76
	7739.00	4.64	306.51	7729.91	163.32	163.32	-20.60	0.75	6675592.32	2088155.21	N 38 38	7.18 W 109 55 57.79
	7769.00	4.67	304.01	7759.81	164.73	164.73	-22.58	0.68	6675593.69	2088153.20	N 38 38	7.19 W 109 55 57.81
	7799.00	4.64	301.68	7789.71	166.05	166.05	-24.63	0.64	6675594.98	2088151.13	N 38 38	7.21 W 109 55 57.84
	7829.00	4.67	299.98	7819.61	167.30	167.30	-26.72	0.47	6675596.19	2088149.02	N 38 38	7.22 W 109 55 57.86
	7859.00	4.50	299.03	7849.51	168.48	168.48	-28.81	0.62	6675597.33	2		



CCU 16-2-25-18H State MWD 7259' to 9218' Definitive Survey Geodetic Report (Def Survey)



Report Date: July 16, 2014 - 12:14 PM
Client: Fidelity
Field: UT, Grand County (NAD 83 CZ)
Structure / Slot: Fidelity 16-25S-18E (CC 16-2-25-18 State) - Nabors M40 / CCU State 16-2-25-18H
Well: CCU 16-2-25-18H State
Borehole: ST1
UWI / APW: Unknown / Unknown
Survey Name: CCU 16-2-25-18H State MWD 7259' to 9218' Definitive
Survey Date: June 02, 2014
Tort / AHD / DDI / ERD Ratio: 151.791 ° / 1831.828 ft / 5.510 / 0.231
Coordinate Reference System: NAD83 Utah State Plane, Central Zone, US Feet
Location Lat / Long: N 38° 38' 5.56440", W 109° 58' 57.52960"
Location Grid N/E Y/X: N 6675429.366 ftUS, E 2088178.667 ftUS
CRS Grid Convergence Angle: 1.0040 °
Grid Scale Factor: 1.00011605
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 271.729 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 5297.000 ft above MSL
Seabed / Ground Elevation: 5274.000 ft above MSL
Magnetic Declination: 10.781 °
Total Gravity Field Strength: 998.8157 mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51123.015 nT
Magnetic Dip Angle: 64.597 °
Declination Date: June 02, 2014
Magnetic Declination Model: BGGM 2014
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 10.7808 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-Into Pilot Hole	7259.00	4.96	318.43	7251.41	-3.75	138.48	7.93	N/A	6675667.98	2088184.17	N 38 38 6.93	W 109 55 57.43
Begin ST1 Survey	7279.00	5.01	306.24	7271.33	-2.44	139.65	6.65	5.29	6675669.12	2088182.87	N 38 38 6.94	W 109 55 57.44
	7310.00	6.60	283.41	7302.18	0.42	140.86	3.83	8.95	6675670.29	2088180.02	N 38 38 6.96	W 109 55 57.48
	7342.00	9.67	269.19	7333.86	4.91	141.25	-0.65	11.40	6675670.60	2088175.54	N 38 38 6.96	W 109 55 57.53
	7374.00	12.66	267.47	7365.25	11.10	141.06	-6.84	9.40	6675670.30	2088169.35	N 38 38 6.96	W 109 55 57.61
	7406.00	15.48	270.08	7396.28	18.66	140.91	-14.62	9.03	6675670.01	2088161.58	N 38 38 6.96	W 109 55 57.71
	7438.00	18.29	271.08	7426.90	28.15	141.01	-23.91	8.83	6675669.95	2088152.29	N 38 38 6.96	W 109 55 57.83
	7470.00	21.10	272.84	7457.03	38.94	141.39	-34.69	8.97	6675670.14	2088141.50	N 38 38 6.96	W 109 55 57.96
	7502.00	24.27	271.87	7486.55	51.27	141.89	-47.02	9.97	6675670.43	2088129.17	N 38 38 6.97	W 109 55 58.12
	7534.00	27.52	270.77	7515.33	65.25	142.20	-60.98	10.27	6675670.49	2088115.19	N 38 38 6.97	W 109 55 58.29
	7566.00	30.60	270.08	7543.30	80.78	142.31	-76.53	9.68	6675670.33	2088099.65	N 38 38 6.97	W 109 55 58.49
	7598.00	31.92	269.51	7570.65	97.98	142.25	-93.13	4.23	6675669.98	2088083.05	N 38 38 6.97	W 109 55 58.70
	7630.00	32.62	269.74	7597.71	114.45	142.14	-110.22	2.22	6675669.57	2088065.96	N 38 38 6.97	W 109 55 58.91
	7662.00	34.12	270.29	7624.43	132.05	142.15	-127.82	4.78	6675669.27	2088048.36	N 38 38 6.97	W 109 55 59.14
	7694.00	37.20	270.30	7650.43	150.69	142.24	-146.47	9.63	6675669.04	2088029.71	N 38 38 6.97	W 109 55 59.37
	7726.00	41.42	270.36	7675.18	170.95	142.36	-166.74	13.19	6675668.80	2088009.44	N 38 38 6.97	W 109 55 59.63
	7758.00	44.58	270.14	7698.58	192.77	142.46	-188.56	9.89	6675668.51	2087987.62	N 38 38 6.97	W 109 55 59.90
	7790.00	47.84	269.69	7720.73	215.85	142.42	-211.65	10.24	6675668.07	2087964.53	N 38 38 6.97	W 109 56 0.19
	7822.00	50.83	269.18	7741.58	240.10	142.18	-235.92	9.42	6675667.40	2087940.26	N 38 38 6.97	W 109 56 0.50
	7854.00	54.17	269.94	7761.05	265.47	141.99	-261.31	10.61	6675666.77	2087914.88	N 38 38 6.97	W 109 56 0.82
	7886.00	57.60	270.81	7779.00	291.95	142.16	-287.79	10.95	6675666.48	2087888.39	N 38 38 6.97	W 109 56 1.15
	7917.00	61.47	270.63	7794.71	318.66	142.50	-314.51	12.49	6675666.35	2087861.67	N 38 38 6.97	W 109 56 1.49
	7949.00	65.51	270.80	7808.99	347.29	142.86	-343.13	12.63	6675666.20	2087833.04	N 38 38 6.98	W 109 56 1.85
	7981.00	67.71	270.58	7821.70	376.65	143.21	-372.50	6.90	6675666.04	2087803.67	N 38 38 6.98	W 109 56 2.22
	8013.00	68.59	270.11	7833.61	406.34	143.39	-402.20	3.07	6675665.70	2087773.97	N 38 38 6.98	W 109 56 2.59
	8045.00	68.94	269.63	7845.20	436.15	143.32	-432.03	1.78	6675665.11	2087744.14	N 38 38 6.98	W 109 56 2.97
	8077.00	70.70	269.11	7856.23	466.16	142.99	-462.06	5.71	6675664.25	2087714.12	N 38 38 6.98	W 109 56 3.35
	8101.00	73.42	269.65	7863.63	488.97	142.74	-484.89	11.53	6675663.61	2087691.29	N 38 38 6.98	W 109 56 3.64
	8196.00	81.95	269.69	7883.87	581.64	142.21	-577.62	8.98	6675661.45	2087598.58	N 38 38 6.97	W 109 56 4.80
	8291.00	88.46	268.51	7891.81	676.19	141.55	-672.23	6.86	6675659.13	2087503.98	N 38 38 6.96	W 109 56 6.00
	8387.00	89.16	268.64	7893.80	772.11	140.84	-768.21	0.74	6675656.73	2087408.02	N 38 38 6.96	W 109 56 7.21
	8483.00	91.98	270.50	7892.85	868.05	140.95	-864.19	3.07	6675655.17	2087312.04	N 38 38 6.96	W 109 56 8.42
	8579.00	89.60	269.24	7891.52	963.98	140.73	-960.17	2.81	6675653.27	2087216.06	N 38 38 6.96	W 109 56 9.63
	8675.00	86.88	270.40	7894.47	1059.87	140.43	-1056.12	3.08	6675651.29	2087120.13	N 38 38 6.95	W 109 56 10.84
	8770.00	86.00	267.84	7900.37	1154.58	138.98	-1150.91	2.84	6675648.17	2087025.36	N 38 38 6.94	W 109 56 12.03
	8866.00	84.33	268.70	7908.46	1250.06	136.09	-1246.52	1.96	6675643.60	2086929.81	N 38 38 6.91	W 109 56 13.23
	8962.00	85.91	271.62	7916.63	1345.66	136.36	-1342.16	3.45	6675642.20	2086834.17	N 38 38 6.91	W 109 56 14.44
	9058.00	87.67	279.44	7922.01	1441.22	145.59	-1437.49	8.34	6675649.76	2086738.69	N 38 38 7.00	W 109 56 15.64
Last ST1 Survey	9154.00	89.87	288.47	7924.08	1534.92	168.72	-1530.53	9.68	6675571.25	2086645.24	N 38 38 7.23	W 109 56 16.81
Projection to Bit	9218.00	90.00	288.47	7924.15	1596.21	188.99	-1591.23	0.20	6675590.47	2086584.19	N 38 38 7.43	W 109 56 17.58

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	Act Stns	30.000	30.000	SLB_CNSG+DPIPE-Depth Only	Pilot Hole / CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
	1	23.000	4800.000	Act Stns	30.000	30.000	SLB_CNSG+DPIPE	Pilot Hole / CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
	1	4800.000	7259.000	Act Stns	30.000	30.000	SLB_GPIT	Pilot Hole / CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
	1	7259.000	9154.000	Act Stns	30.000	30.000	SLB_MWD-STD	ST1 / CCU 16-2-25-18H State MWD 7259' to 9218' Definitive
	1	9154.000	9218.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	ST1 / CCU 16-2-25-18H State MWD 7259' to 9218' Definitive



CCU 16-2-25-18H State ST2 8387' to 11365' Definitive Survey Geodetic Report (Def Survey)



Report Date: July 09, 2014 - 11:37 AM
 Client: Fidelity
 Field: UT, Grand County (NAD 83 GZ)
 Structure / Slot: Fidelity 16-25S-18E (CC 16-2-25-18 State) - Nabors M40 / CCU State 16-2-25-18H
 Well: CCU 16-2-25-18H State
 Borehole: ST2
 UWI / API#: Unknown / Unknown
 Survey Name: CCU 16-2-25-18H State ST2 8387' to 11365' Definitive
 Survey Date: June 06, 2014
 Tort / AHD / DDI / ERD Ratio: 205.193 ° / 3971.473 ft / 6.066 / 0.499
 Coordinate Reference System: NAD83 Utah State Plane, Central Zone, US Feet
 Location Lat / Long: N 38°39' 5.56440", W 109°55' 57.52680"
 Location Grid N/E Y/X: N 6875429.366 ftUS, E 2088178.667 ftUS
 CRS Grid Convergence Angle: 1.0040 °
 Grid Scale Factor: 1.00011605
 Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 271.729 ° (True North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 5297.000 ft above MSL
 Seabed / Ground Elevation: 5274.000 ft above MSL
 Magnetic Declination: 10.780 °
 Total Gravity Field Strength: 998.8157 mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 51121.580 nT
 Magnetic Dip Angle: 64.596 °
 Declination Date: June 06, 2014
 Magnetic Declination Model: BCGM 2014
 North Reference: True North
 Grid Convergence Used: 0.0000 °
 Total Corr Mag North-True North: 10.7797 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-Into ST1	8387.00	89.16	269.64	7893.80	772.11	140.84	-768.21	N/A	6675556.73	2087408.02	N 38 38 6.96	W 109 56 7.21
Begin ST2	8419.00	86.88	269.57	7894.91	804.06	140.62	-800.18	7.13	6675555.95	2087378.05	N 38 38 6.95	W 109 56 7.61
Survey	8451.00	85.47	267.45	7897.04	835.94	139.79	-832.10	7.94	6675554.56	2087344.15	N 38 38 6.95	W 109 56 8.01
	8483.00	85.82	265.82	7899.47	867.71	137.86	-863.95	5.81	6675552.08	2087312.34	N 38 38 6.93	W 109 56 8.41
	8579.00	87.49	263.53	7905.07	902.79	128.80	-909.35	2.78	6675541.34	2087217.10	N 38 38 6.84	W 109 56 9.62
	8675.00	87.67	262.44	7909.13	1057.59	117.08	-1054.54	1.15	6675527.96	2087122.12	N 38 38 6.72	W 109 56 10.82
	8770.00	85.74	261.36	7914.59	1151.04	103.72	-1148.43	2.33	6675512.96	2087028.46	N 38 38 6.59	W 109 56 12.00
	8866.00	83.82	260.32	7923.49	1244.90	88.51	-1242.79	2.46	6675496.09	2086934.37	N 38 38 6.44	W 109 56 13.19
	8962.00	85.47	259.17	7932.61	1338.37	71.49	-1336.83	2.27	6675477.43	2086840.64	N 38 38 6.27	W 109 56 14.37
	9058.00	87.32	260.48	7938.65	1432.12	54.57	-1431.12	2.36	6675458.85	2086746.64	N 38 38 6.10	W 109 56 15.56
	9154.00	89.78	263.18	7941.08	1526.64	40.93	-1526.10	3.80	6675443.55	2086651.91	N 38 38 5.97	W 109 56 16.76
	9250.00	87.23	266.19	7943.58	1621.87	32.05	-1621.64	4.11	6675432.99	2086556.53	N 38 38 5.88	W 109 56 17.96
	9346.00	87.41	269.34	7948.07	1717.52	28.31	-1717.45	3.28	6675427.57	2086460.79	N 38 38 5.84	W 109 56 19.17
	9441.00	89.08	269.30	7950.98	1812.39	27.18	-1812.39	1.76	6675424.78	2086365.87	N 38 38 5.83	W 109 56 20.37
	9537.00	92.15	269.91	7949.95	1908.31	26.52	-1908.37	3.26	6675422.44	2086269.90	N 38 38 5.83	W 109 56 21.58
	9633.00	96.38	268.98	7942.82	2003.94	25.59	-2004.08	4.51	6675419.84	2086174.22	N 38 38 5.82	W 109 56 22.78
	9728.00	101.30	270.55	7928.22	2097.72	25.20	-2097.92	5.43	6675417.80	2086080.39	N 38 38 5.81	W 109 56 23.98
	9824.00	97.69	270.44	7912.39	2192.37	26.02	-2192.59	3.76	6675416.96	2085995.71	N 38 38 5.82	W 109 56 25.16
	9920.00	94.26	270.73	7902.39	2287.82	26.99	-2288.04	3.59	6675416.26	2085900.24	N 38 38 5.83	W 109 56 26.36
	10015.00	86.79	270.93	7901.52	2382.73	28.37	-2382.96	7.87	6675415.97	2085795.30	N 38 38 5.84	W 109 56 27.56
	10111.00	87.58	269.81	7906.24	2478.59	28.99	-2478.84	1.43	6675414.91	2085699.41	N 38 38 5.85	W 109 56 28.76
	10207.00	90.13	270.88	7908.16	2574.53	29.56	-2574.81	2.88	6675413.81	2085603.44	N 38 38 5.86	W 109 56 29.97
	10303.00	92.77	271.61	7905.73	2670.49	31.85	-2670.75	2.85	6675414.21	2085507.47	N 38 38 5.88	W 109 56 31.18
	10399.00	96.11	270.73	7899.30	2766.18	33.60	-2766.43	3.60	6675414.49	2085411.76	N 38 38 5.90	W 109 56 32.39
	10495.00	97.61	270.28	7886.83	2861.47	34.45	-2861.73	1.63	6675413.66	2085316.44	N 38 38 5.90	W 109 56 33.59
	10591.00	94.09	268.35	7877.05	2956.87	33.30	-2957.21	4.18	6675410.84	2085220.99	N 38 38 5.89	W 109 56 34.79
	10687.00	95.68	270.08	7868.96	3052.43	31.99	-3052.85	2.37	6675407.85	2085125.38	N 38 38 5.88	W 109 56 36.00
	10783.00	94.70	270.39	7860.35	3148.01	32.38	-3148.46	0.97	6675406.57	2085029.76	N 38 38 5.88	W 109 56 37.20
	10879.00	94.28	270.68	7852.86	3243.69	32.27	-3244.16	0.55	6675405.78	2084934.05	N 38 38 5.89	W 109 56 38.41
	10976.00	92.86	269.39	7846.83	3340.46	33.33	-3340.97	1.96	6675404.15	2084837.24	N 38 38 5.89	W 109 56 39.63
	11071.00	88.99	269.71	7845.30	3435.36	32.59	-3435.94	4.09	6675401.74	2084742.29	N 38 38 5.88	W 109 56 40.83
	11165.00	87.78	270.44	7847.97	3529.28	32.71	-3529.90	1.52	6675400.21	2084648.33	N 38 38 5.89	W 109 56 42.01
	11261.00	87.41	271.06	7852.01	3625.18	33.96	-3625.80	0.74	6675399.79	2084552.41	N 38 38 5.90	W 109 56 43.22
Last ST2 Survey	11301.00	86.70	270.96	7854.07	3685.12	34.67	-3685.75	1.79	6675399.79	2084512.46	N 38 38 5.90	W 109 56 43.72
Projection to Bit	11365.00	88.70	270.96	7857.75	3729.01	35.74	-3729.63	0.00	6675399.74	2084448.56	N 38 38 5.91	W 109 56 44.53

Survey Type: Def Survey

Survey Error Model: ISOWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	Act Stns	30.000	SLB_CNSG+DPIPE-Depth Only	Pilot Hole / CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
	1	23.000	4800.000	Act Stns	30.000	SLB_CNSG+DPIPE	Pilot Hole / CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
	1	4800.000	7259.000	Act Stns	30.000	SLB_GPIT	Pilot Hole / CCU 16-2-25-18 State GYRO+GPIT 0' to 8039' Definitive
	1	7259.000	8387.000	Act Stns	30.000	SLB_MWD-STD	ST1 / CCU 16-2-25-18H State MWD 7259' to 9218' Definitive
	1	8387.000	11301.000	Act Stns	30.000	SLB_MWD-STD	ST2 / CCU 16-2-25-18H State ST2 8387' to 11365' Definitive
	1	11301.000	11365.000	Act Stns	30.000	SLB_BLIND+TREND	ST2 / CCU 16-2-25-18H State ST2 8387' to 11365' Definitive


Weatherford®
**SECTOR CEMENT
BOND LOG
7.0" 29# CASING**

COMPANY FIDELITY EXPL. & PROD. CO. WELL CCU ST 16-2-25-18		FIELD CANE CREEK CNTY GRAND STATE UT		COMPANY FIDELITY EXPLORATION & PRODUCTION CO. WELL CCU ST 16-2-25-18 FIELD CANE CREEK COUNTY GRAND STATE UTAH	
PERM. DATUM GROUND LEVEL LOG MEASURED FROM K.B. 23 FT. ABOVE PERMANENT DATUM DRILLING MEASURED FROM KELLY BUSHING		LOCATION: SHL: 885' FNL & 708' FEL API# 43-019-50037 SEC. TWP. RGE.		OTHER SERVICES:	
DATE	18-JUN-2014	ELEV. 3277'	ELEV.: K.B. 3300'	D.F. 3300'	G.L. 3277'
RUN NO.	ONE				
DEPTH DRILLER	11000'				
DEPTH LOGGER	8170'				
BIT. LOG INTERVAL	8166'				
TOP LOG INTERVAL	SURFACE				
OPEN HOLE SIZE	7.875"				
TYPE FLUID	WATER				
DENS.	8.3	0.00			
MAX. REC. TEMP. F	32				
EST. CEMENT TOP	SEE LOG				
TIME WELL READY	ROA				
TIME LOGGER ON BIT.	SEE LOG				
EQUIP. NO.	14247				
LOCATION	FARMINGTON, NM				
RECORDED BY	W. RICHARDSON				
WITNESSED BY	D. SULLIVAN				
BOREHOLE RECORD		TUBING RECORD			
RUN NO.	BIT FROM TO	SIZE	WGT.	FROM	TO
CASING RECORD	SIZE	WT/FT	GRADE	TYPE JOINT	TOP BOTTOM
SURFACE STRING					
PROT. STRING	9.625	47			4915'
PROD. STRING	7.0	29			11000'
LINER					

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS Rig: NABORS M40 Service Order # 90216546
LOG RAN FROM K.B. BHT 32 °F

Prints: 2

THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES FARMINGTON, NM (505)564-9131

		EQUIPMENT DATA			
Bit Size	8.750	Run No.	Tool Type	Tool No.	Other
Well Status	NEW DRILL	ONE	CENA	400	
Surface Pressure		ONE	CTBA	170	
Shut In		ONE	GRBA	232	
Flowing		ONE	CENB	256	
		ONE	SBTA	238	
		ONE	CENA	258	

DEPTH SCALE: 5":100'

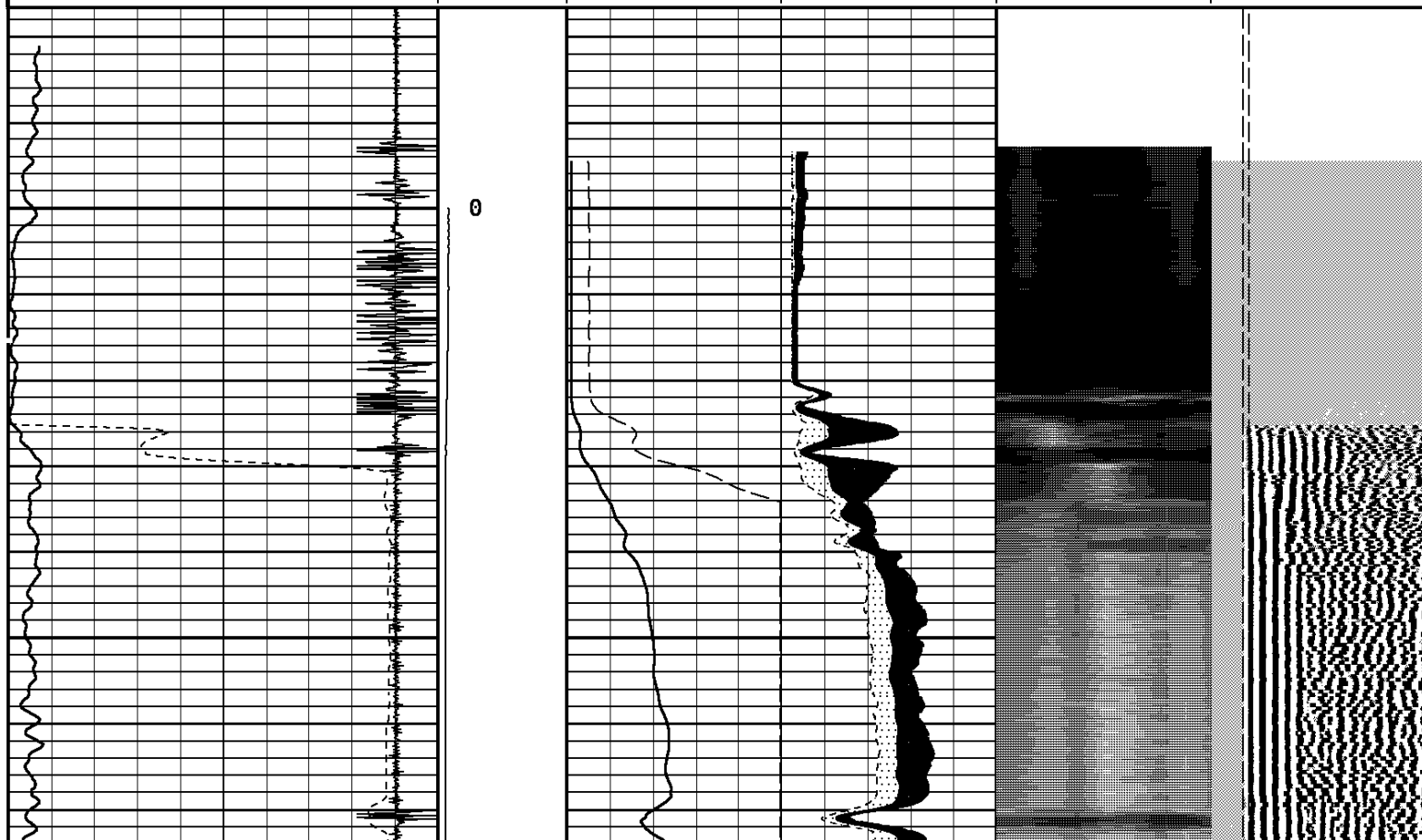
PROCESSED VERSION: 2012.07.18.162"

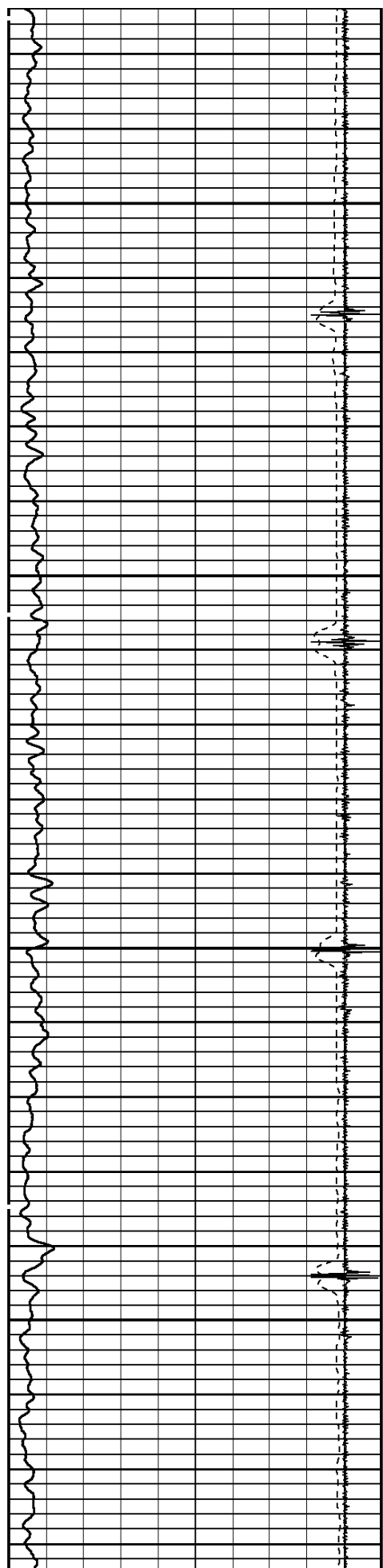
MAIN PASS

90216546 MAIN

FINISH DEPTH: -6.4 Feet DIRECTION: UP DATE: 06/18/2014 TIME: 08:54 MODE: ORIGINAL
 RECOMPUTED DATE: 06/18/2014 TIME: 09:12

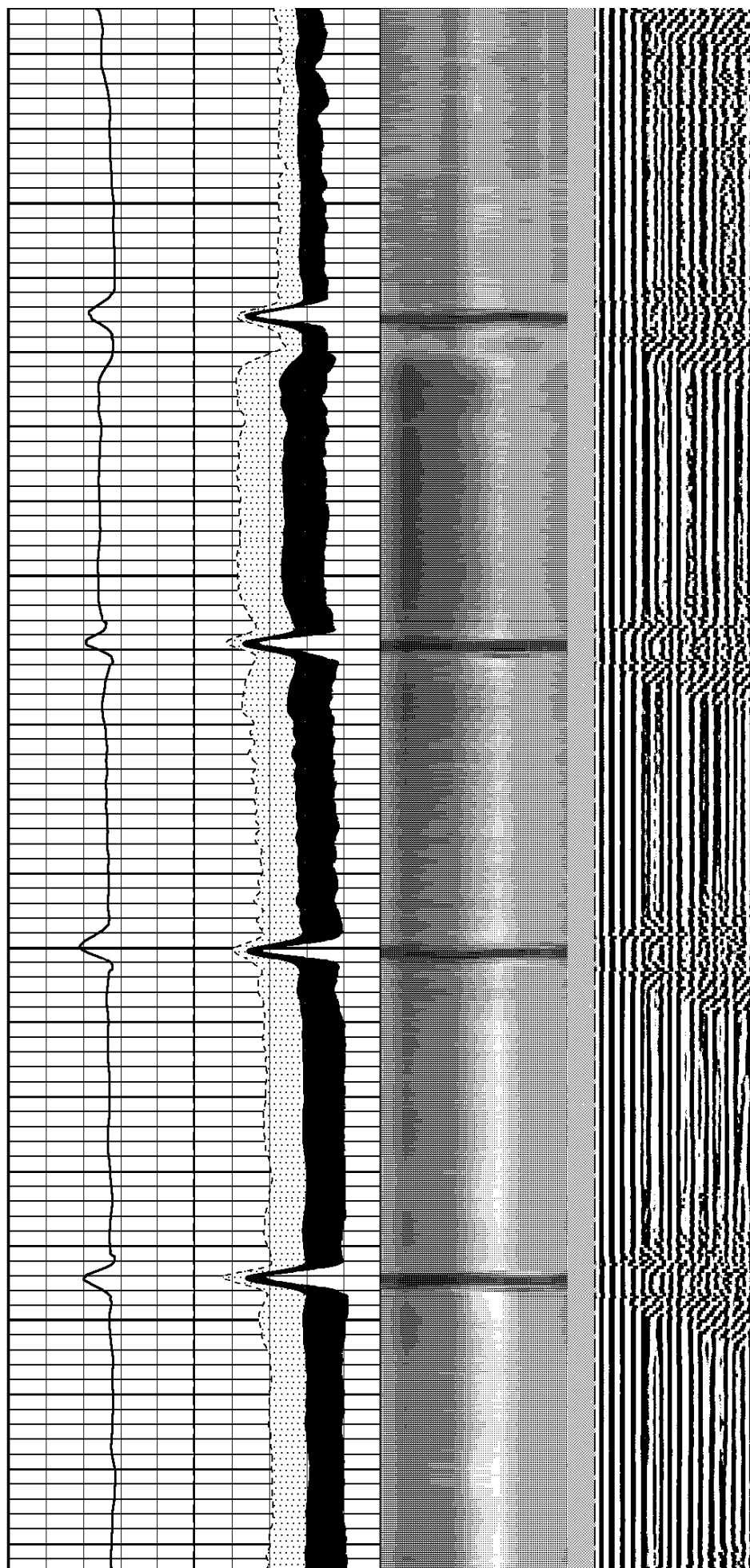
Collar Locator						MAX ENERGY					FREE PIPE GATE		
-1800	Millivolts	190				0	mv				100	200	us
Gamma Ray						AVG ENERGY					FREE PIPE GATE		
0	API	200				0	mv				20	0	mv
TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERGY		VARIABLE DENSI			
350	Microseconds	250	0	3000	0	mv	100	0	mv	80	200	us	1200

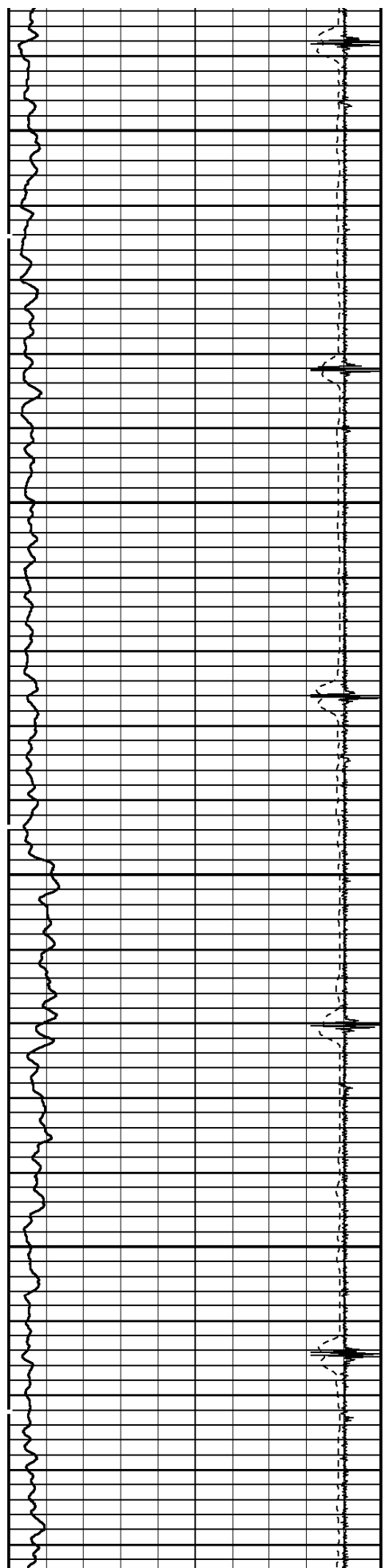




100

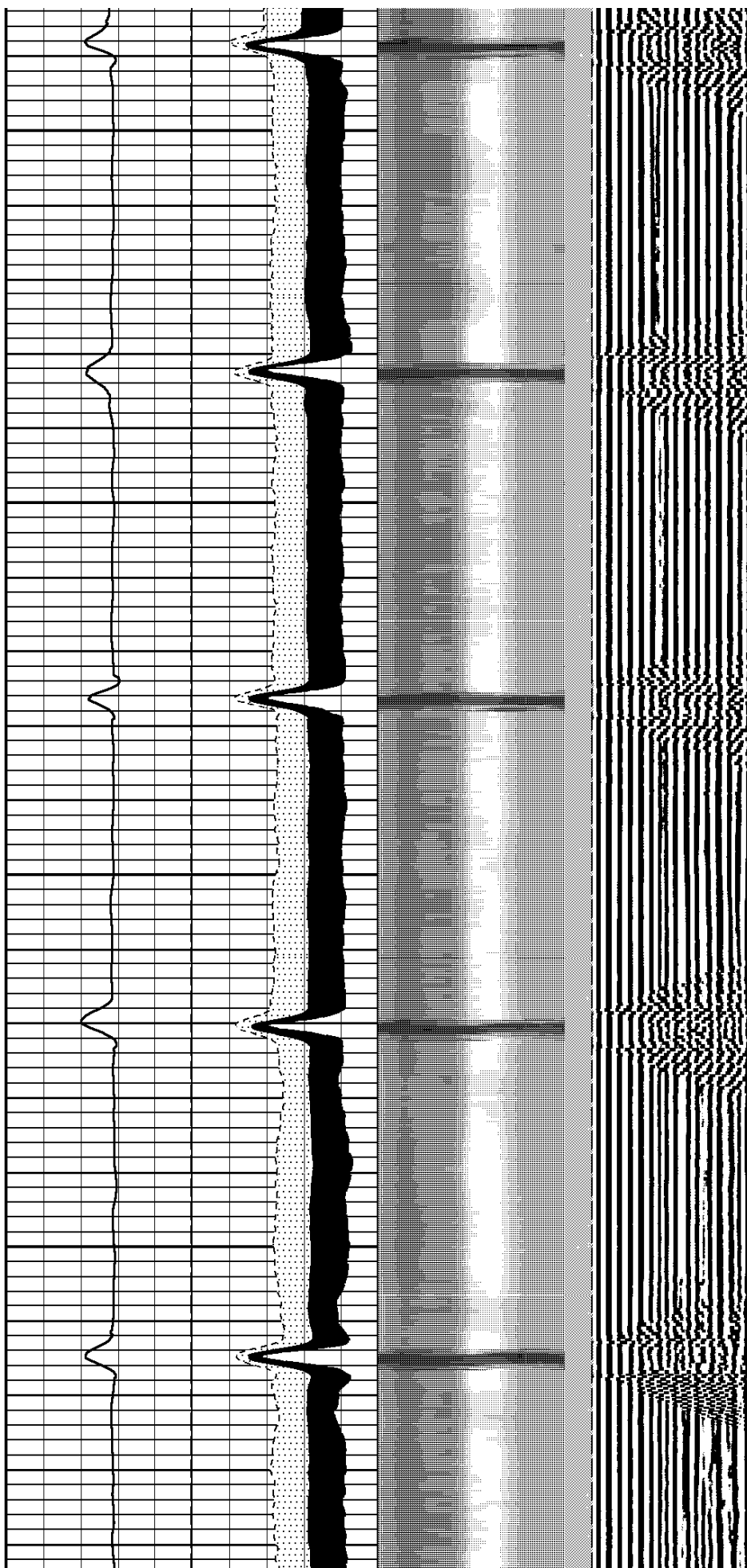
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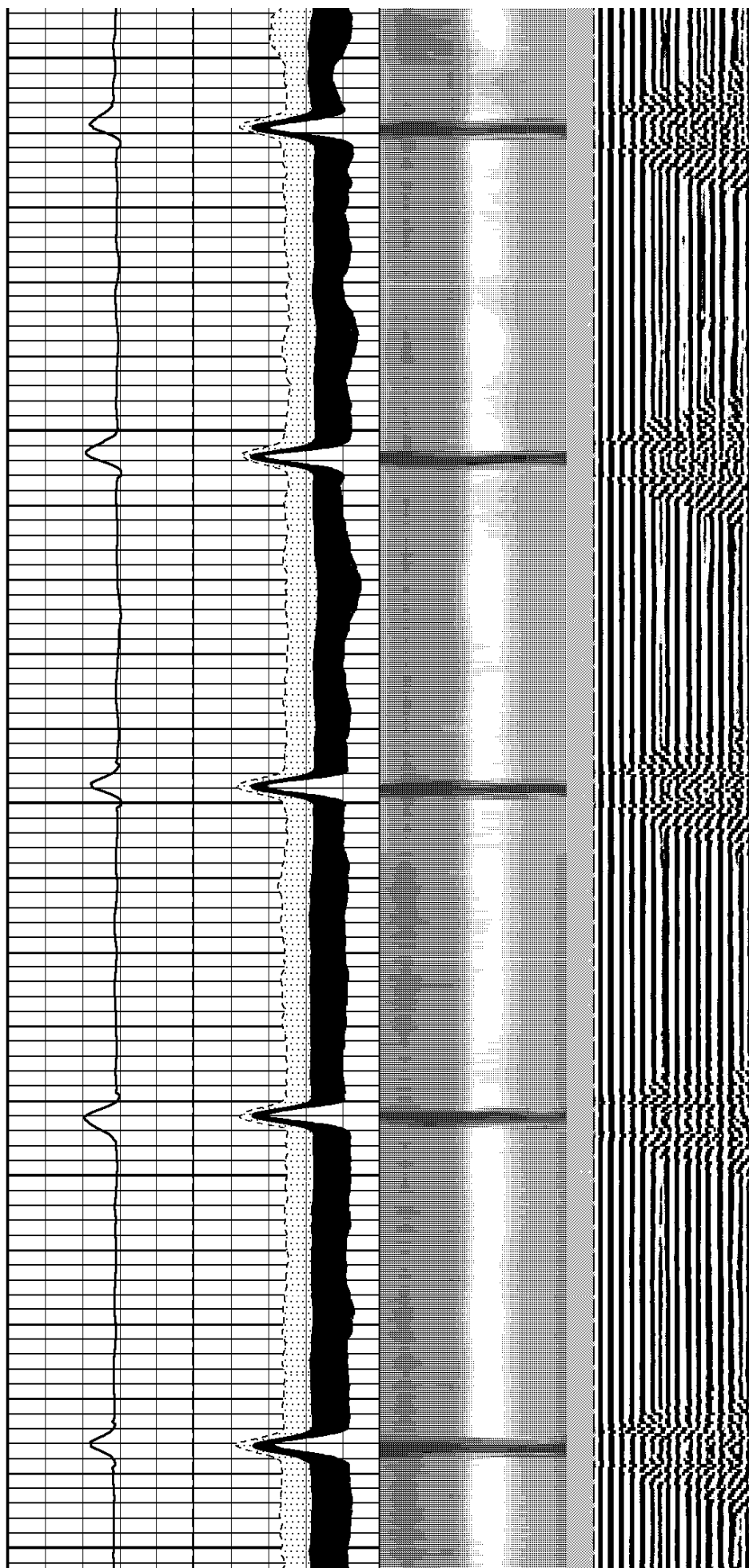
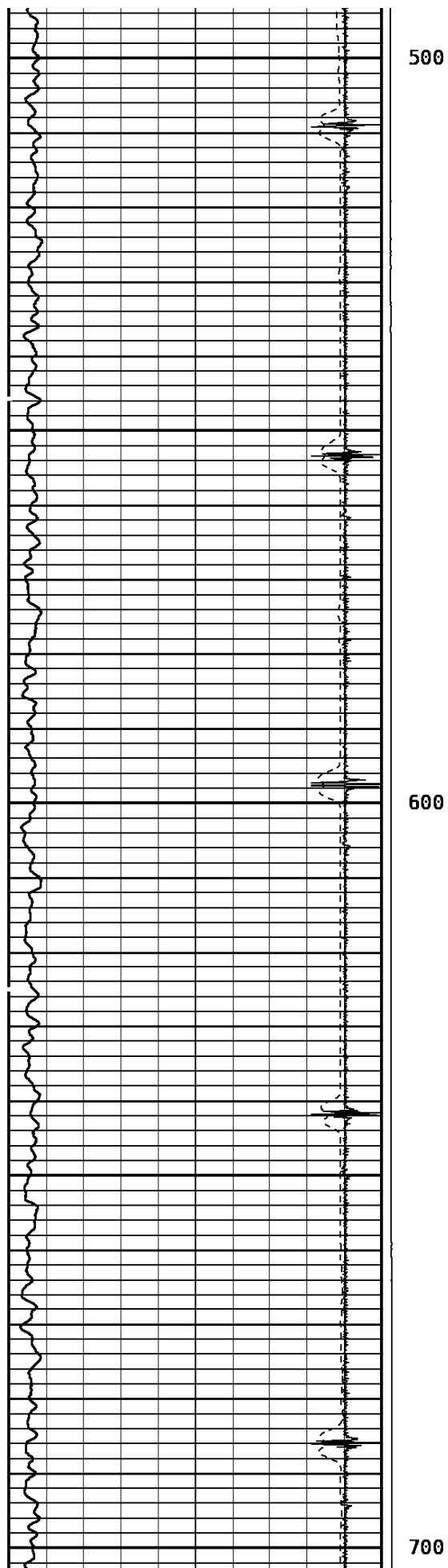


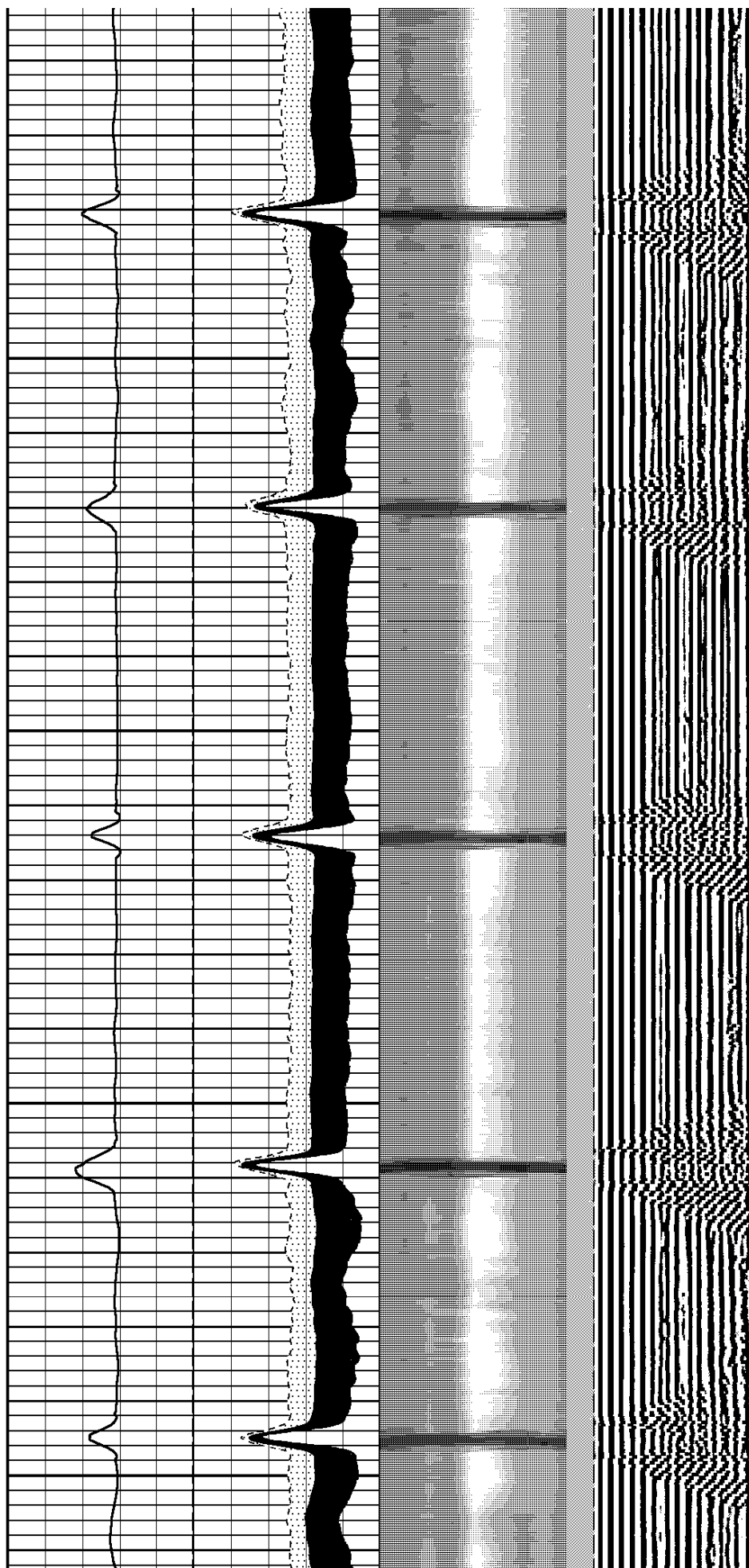
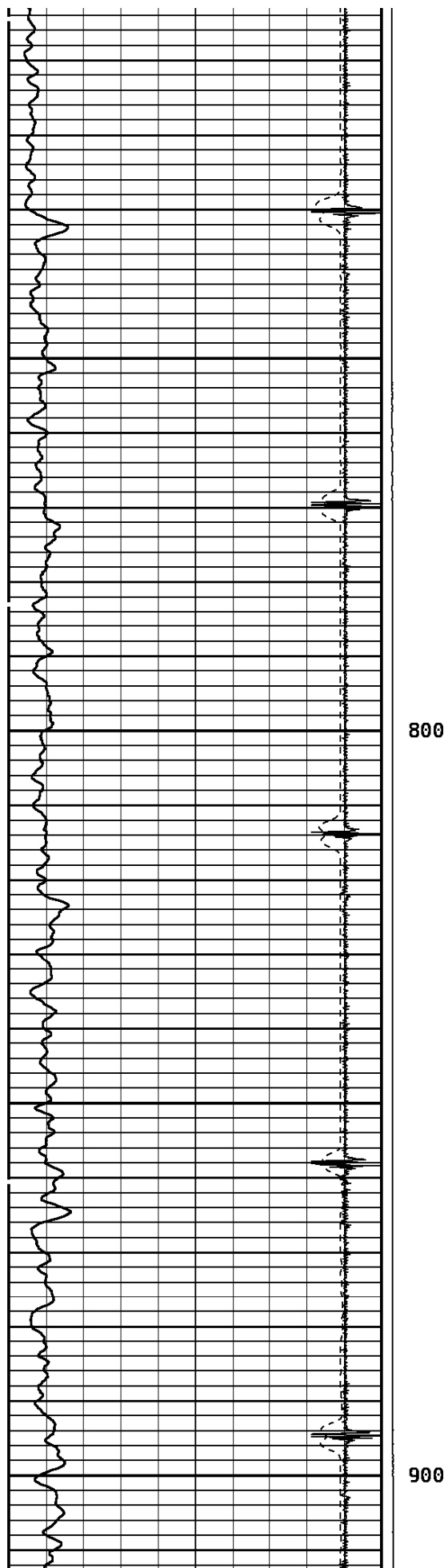


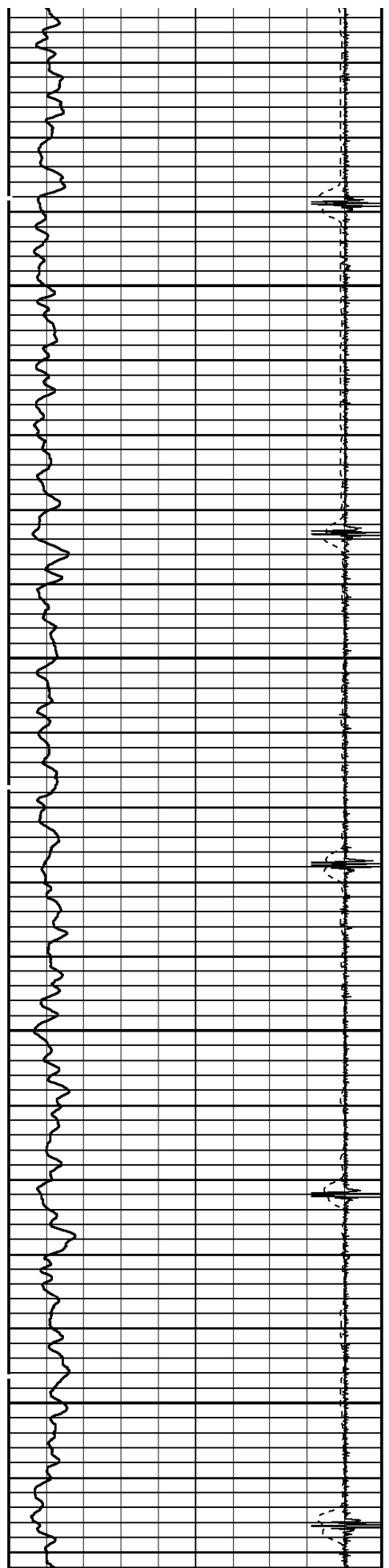
300

400



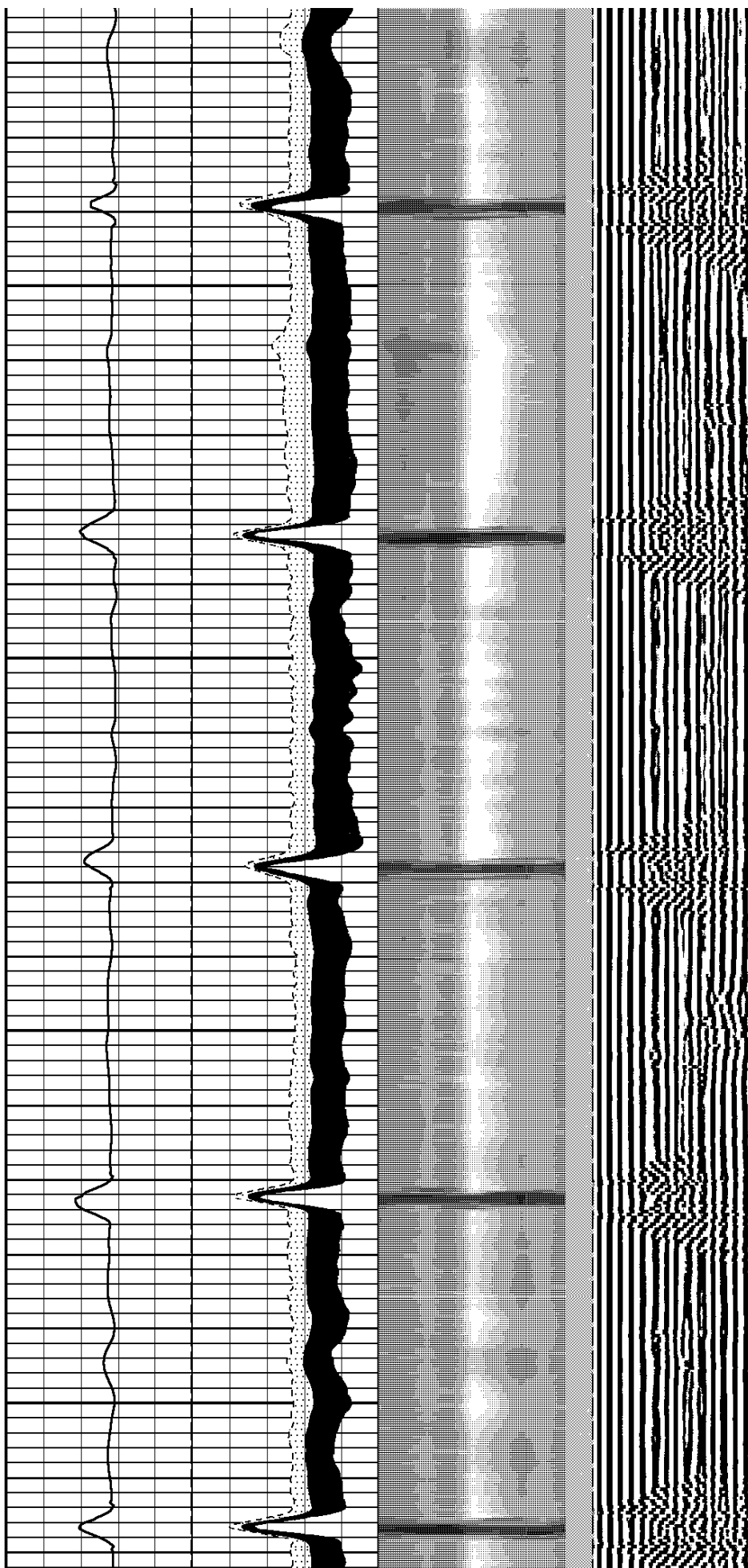


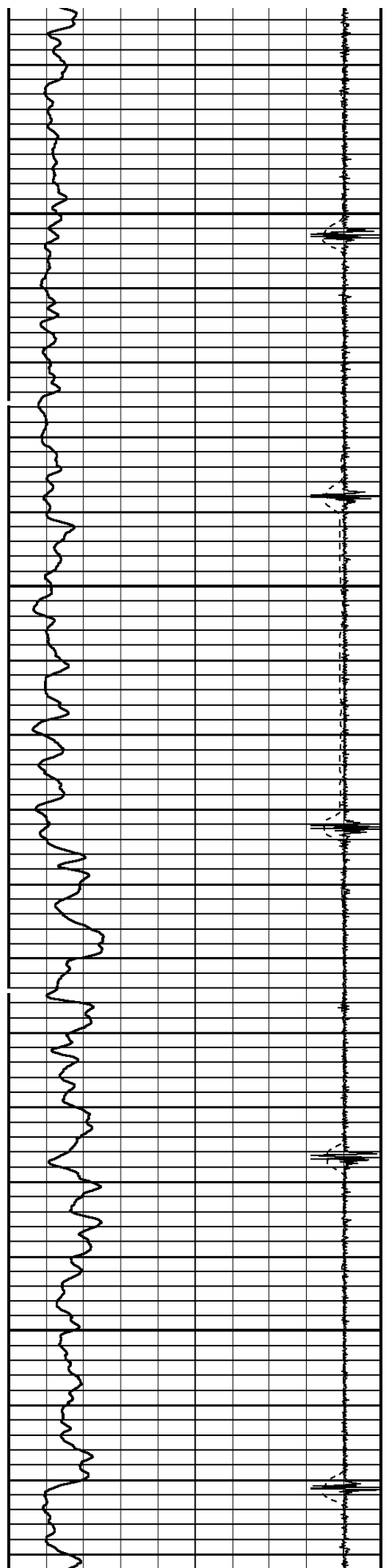




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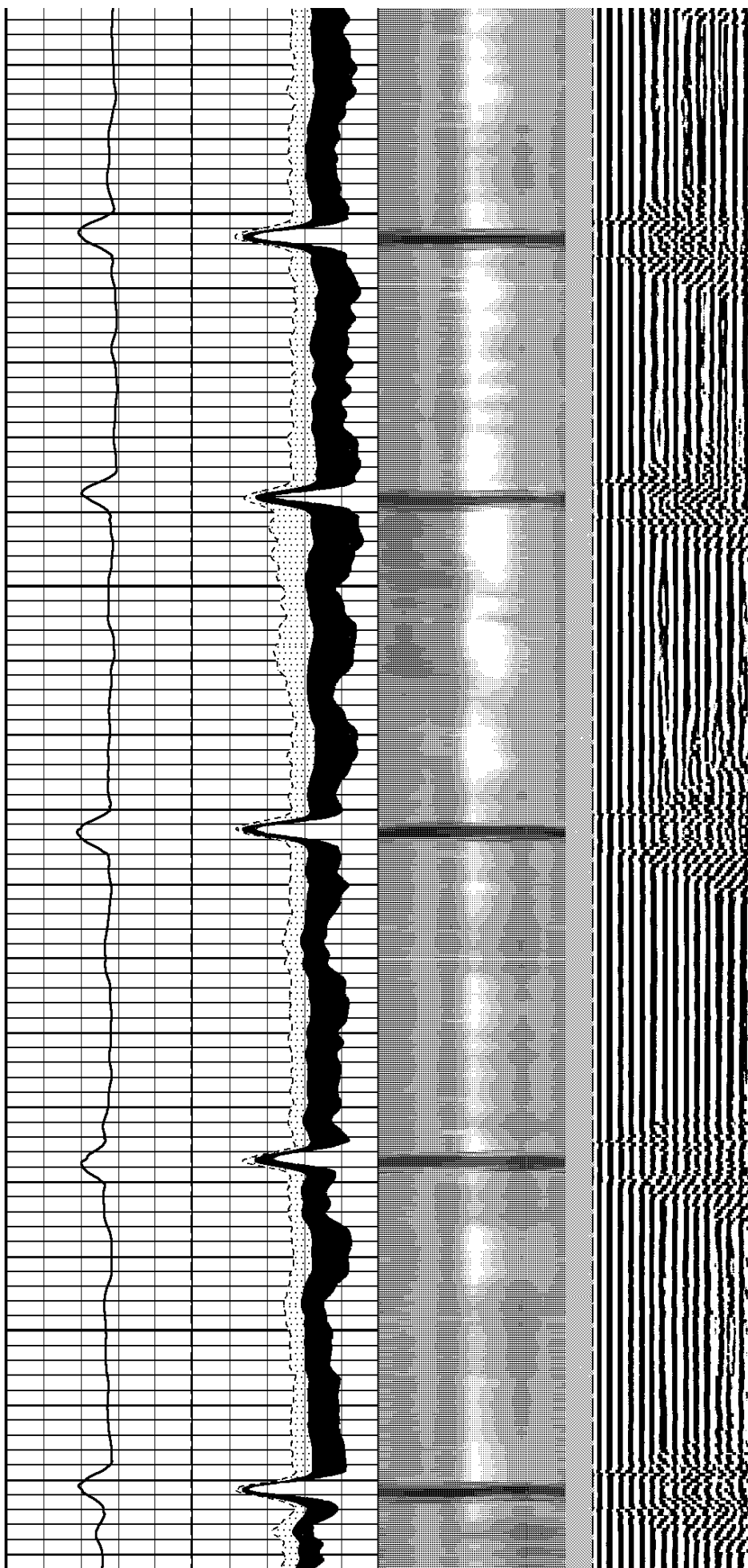
1100

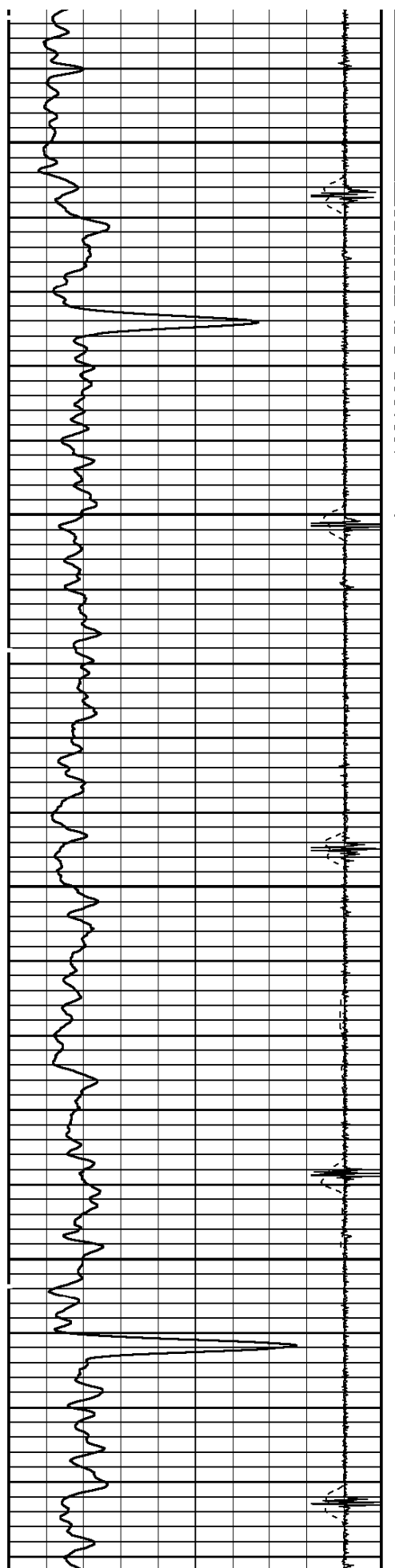




1200

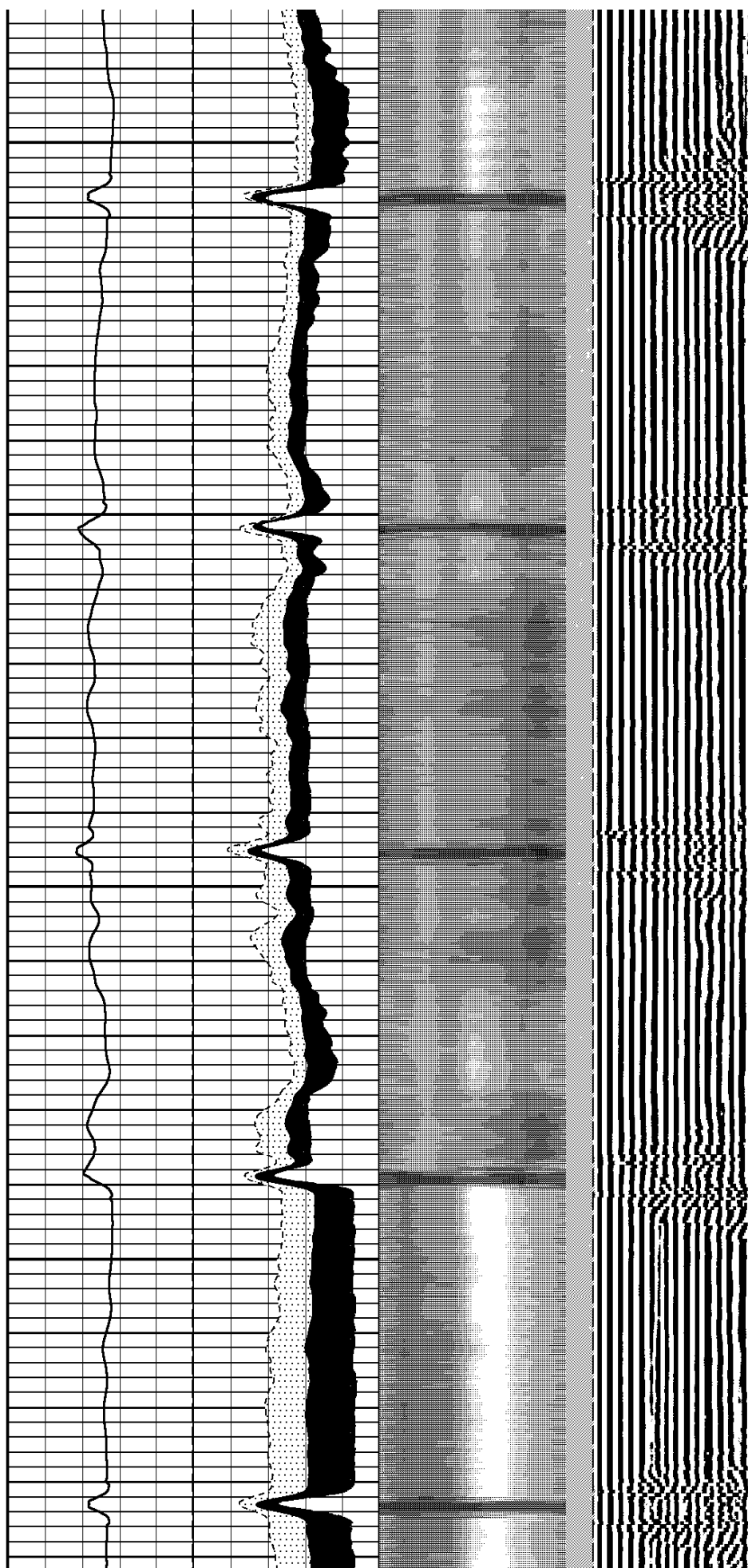
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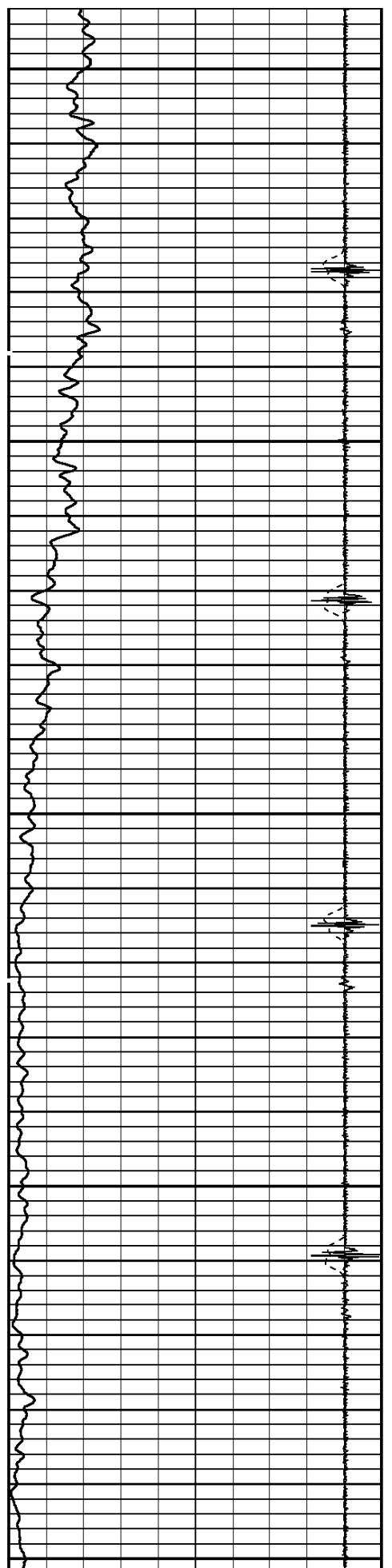




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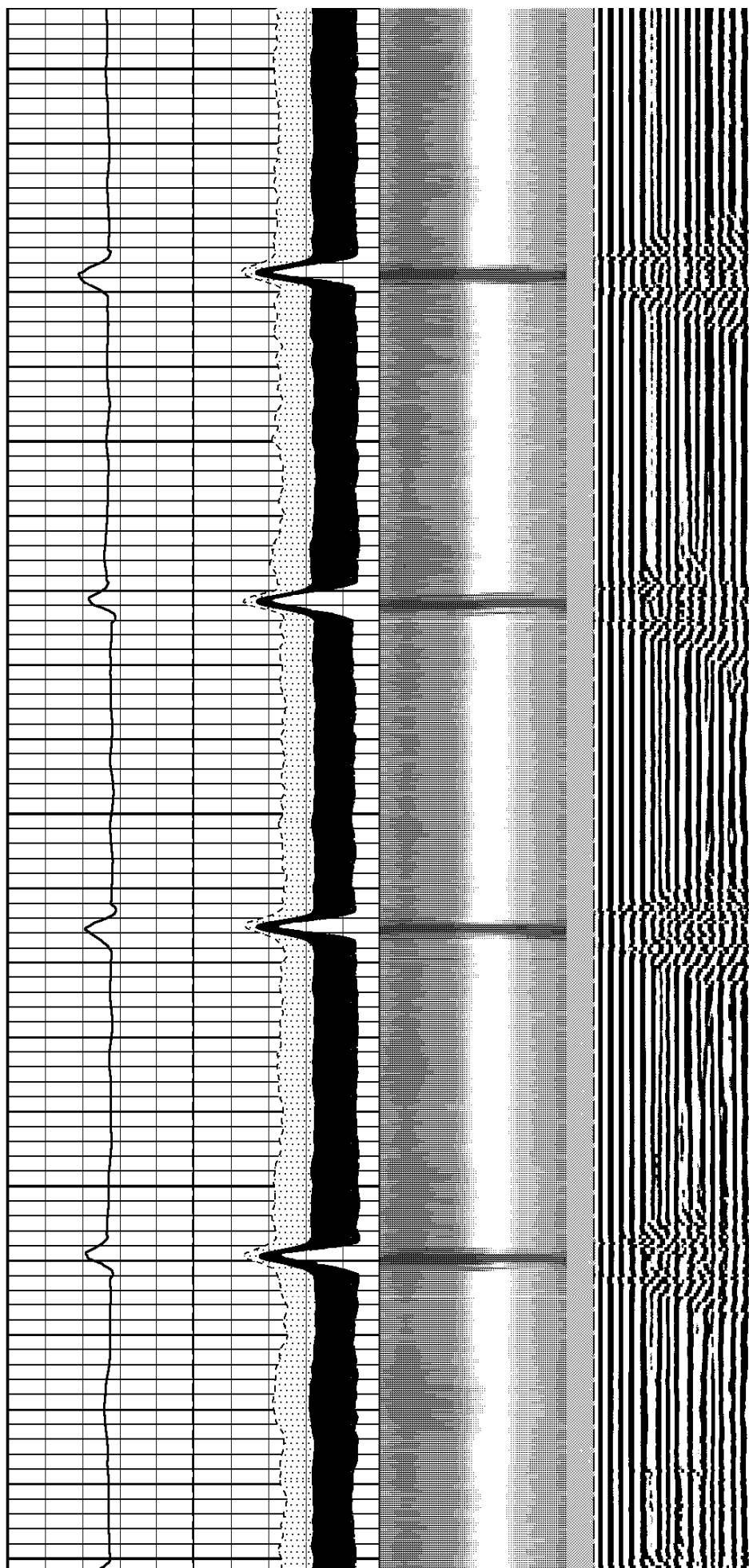
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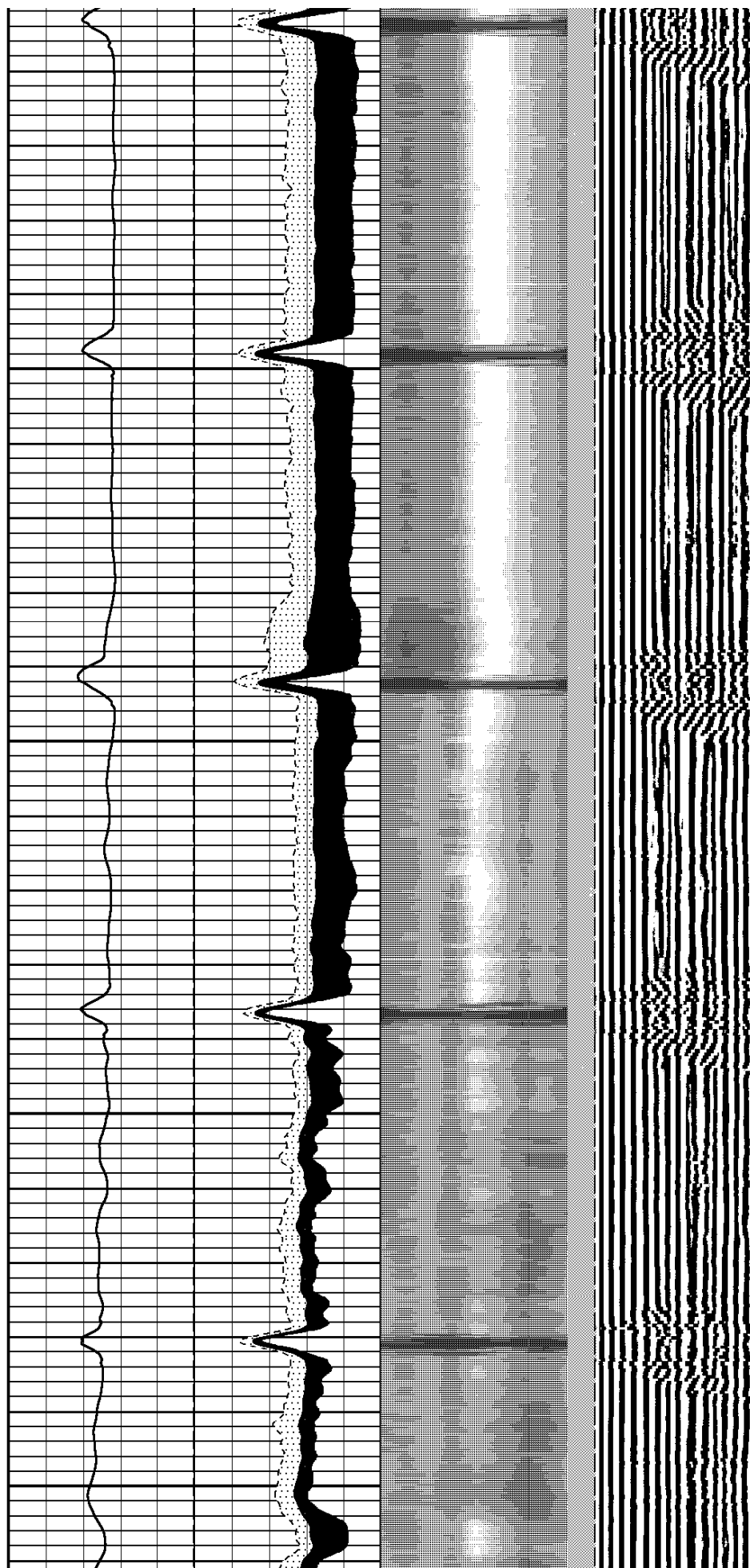
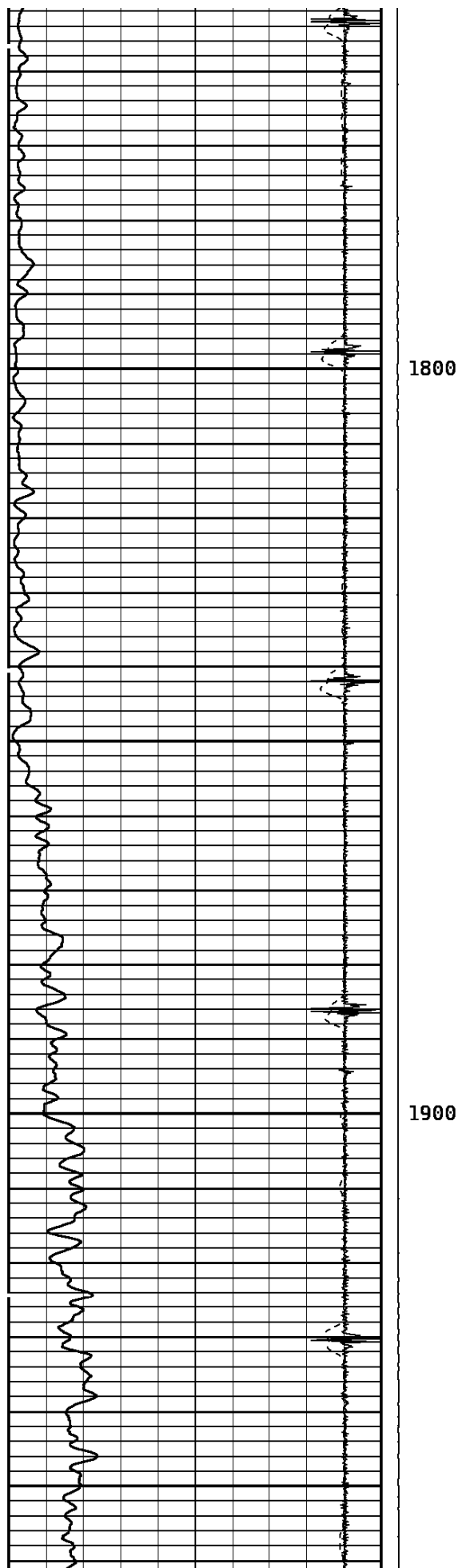


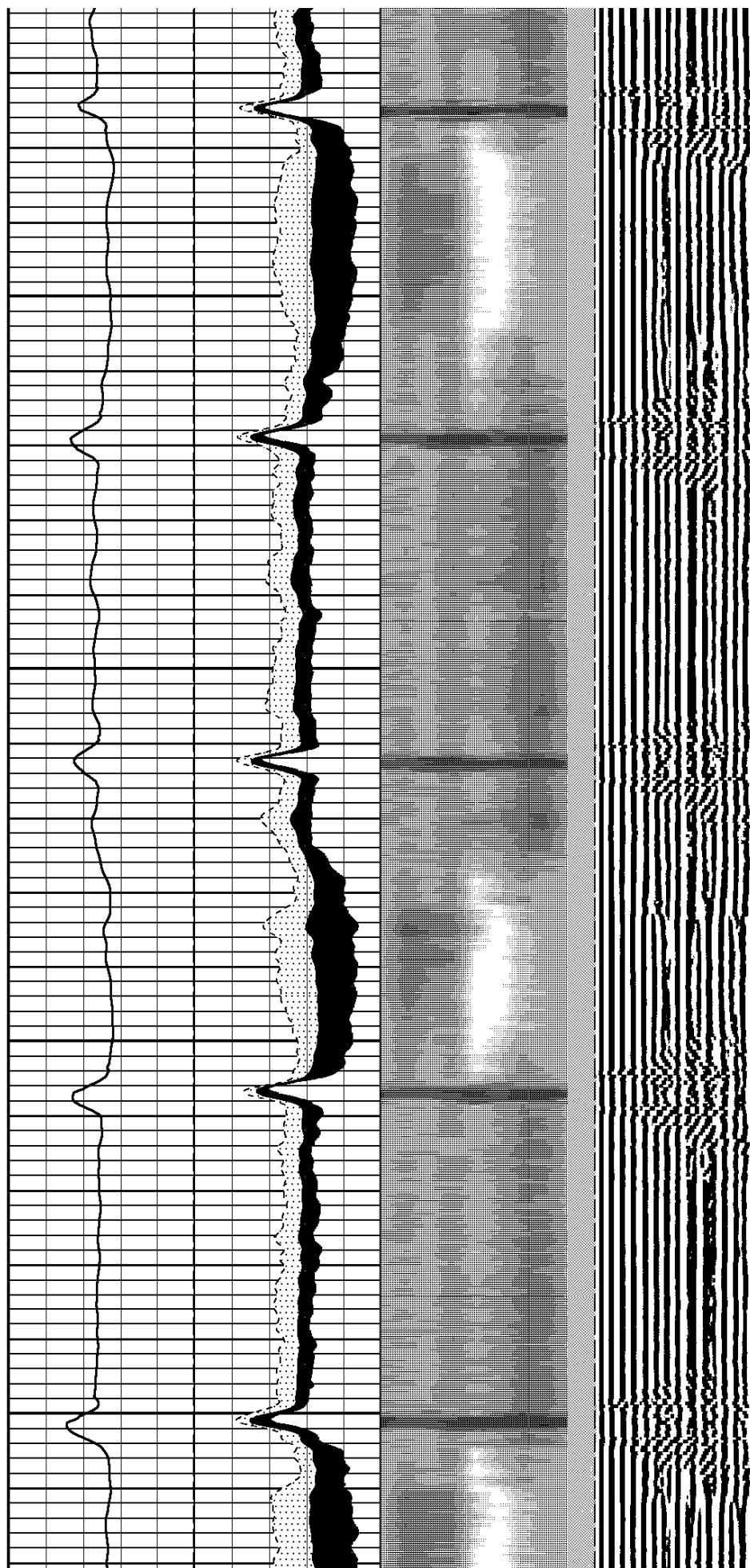
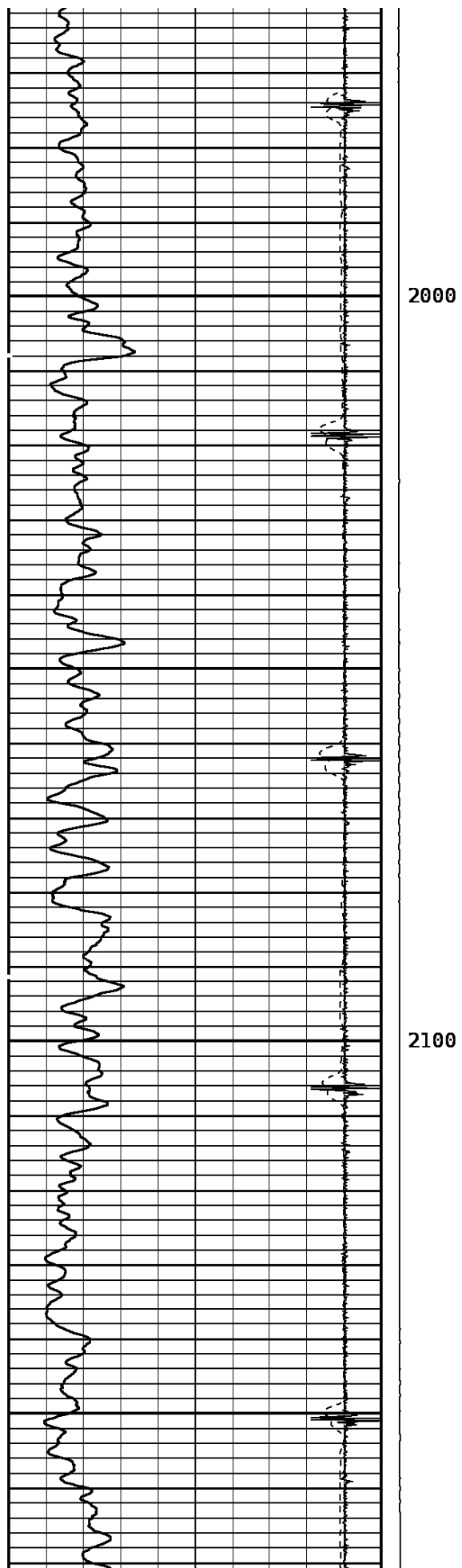


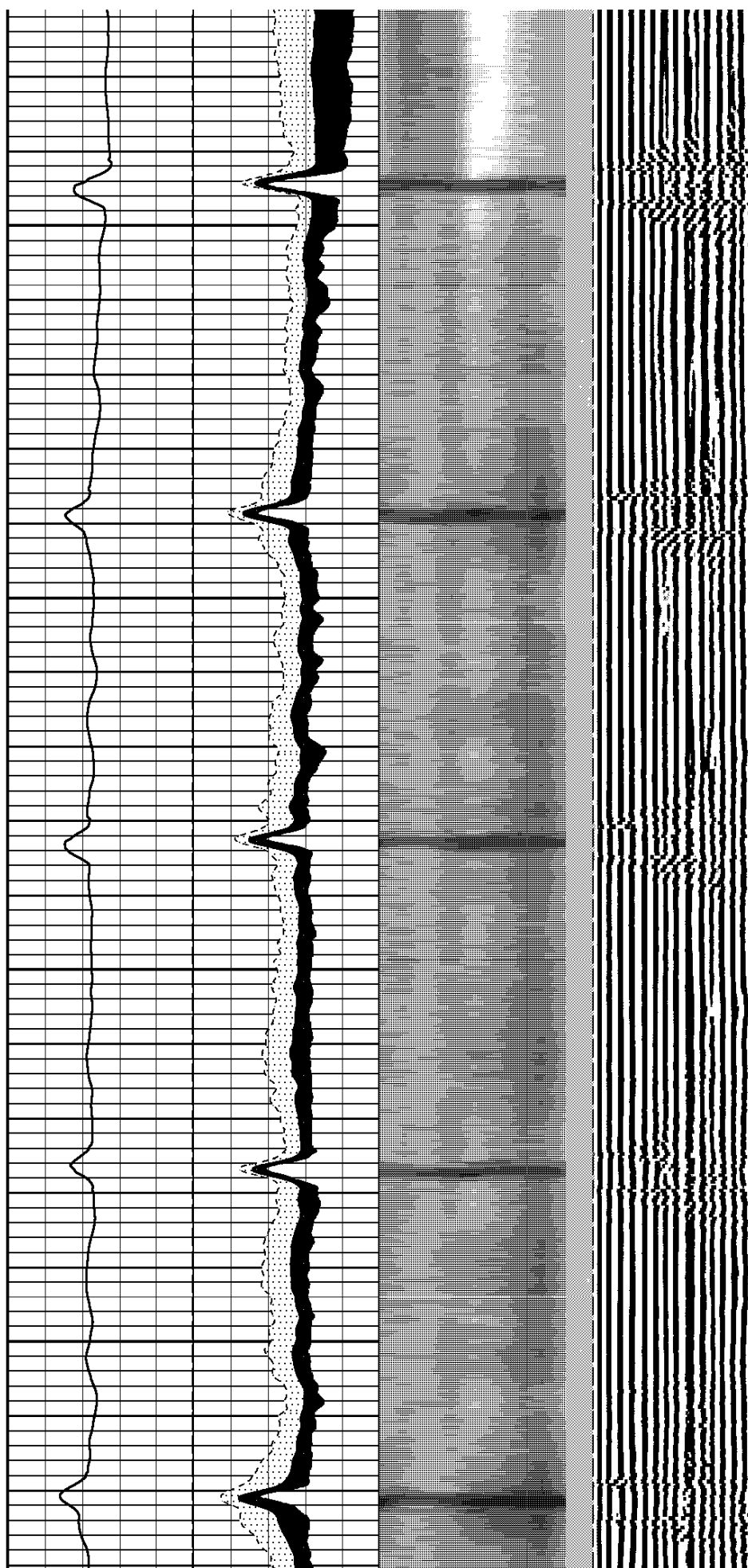
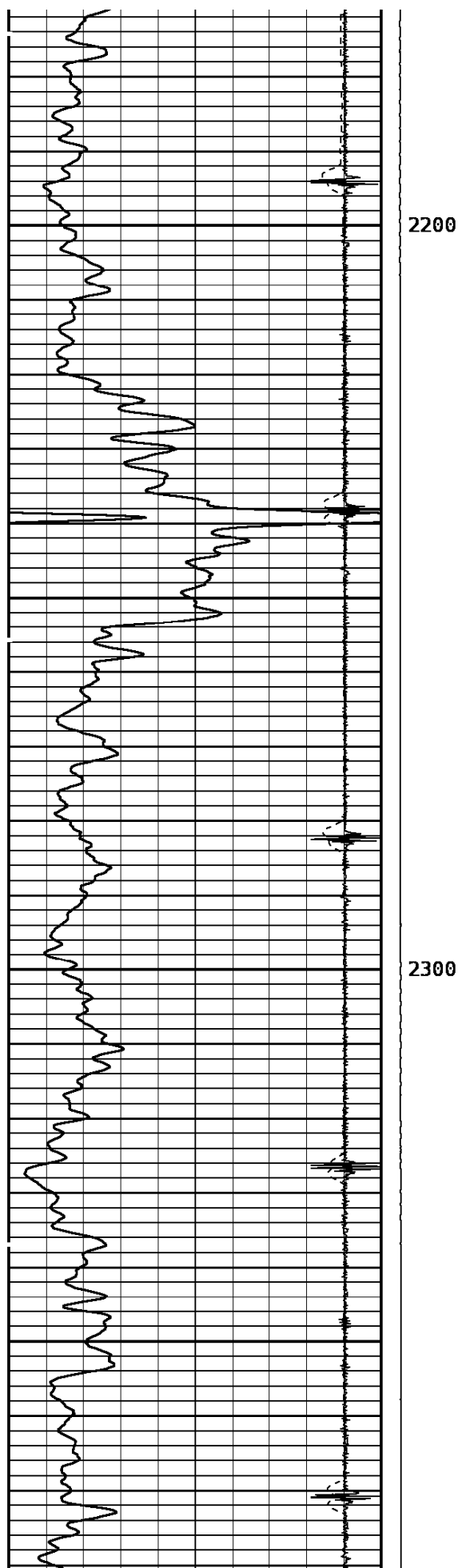
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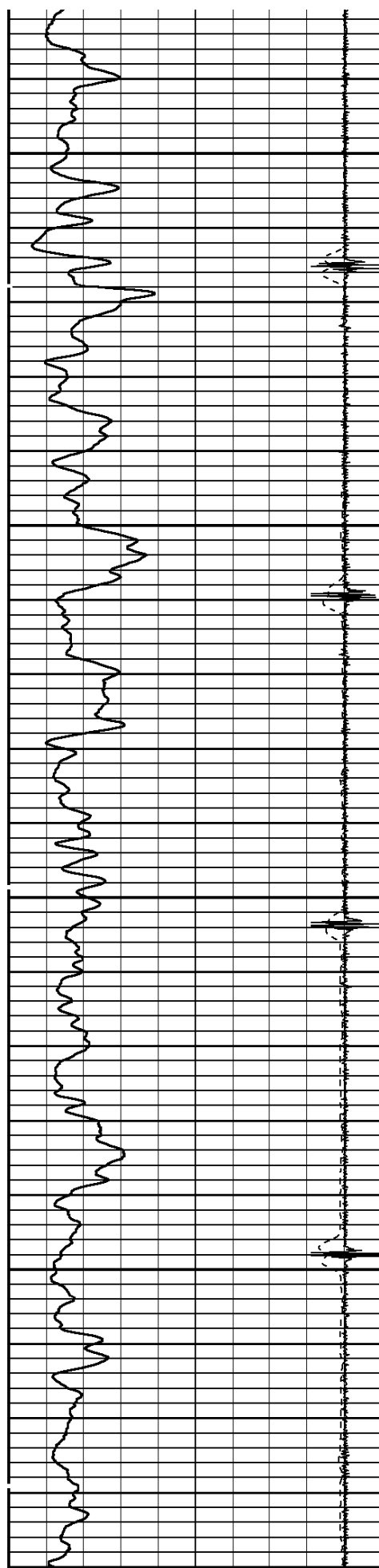
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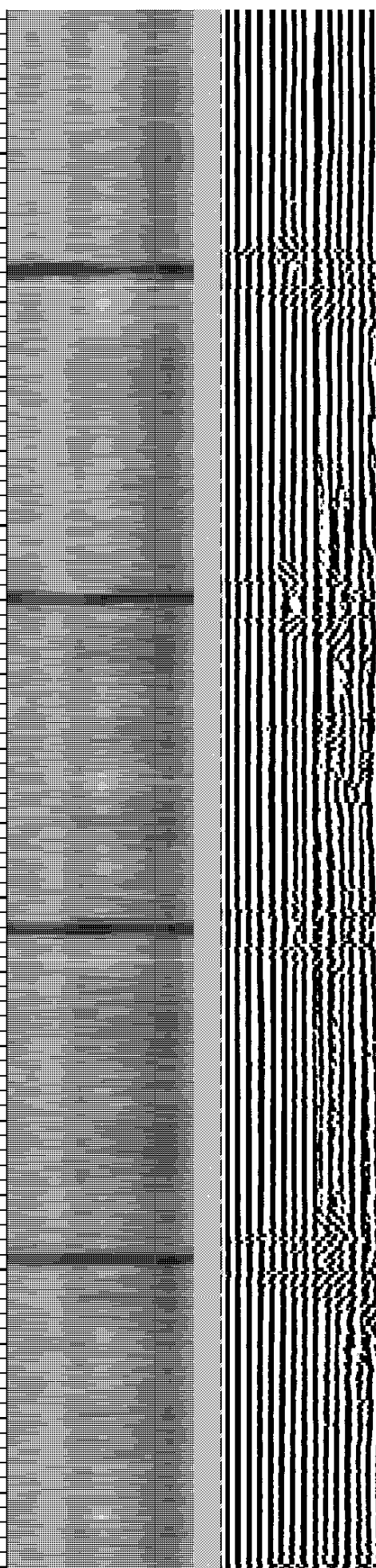
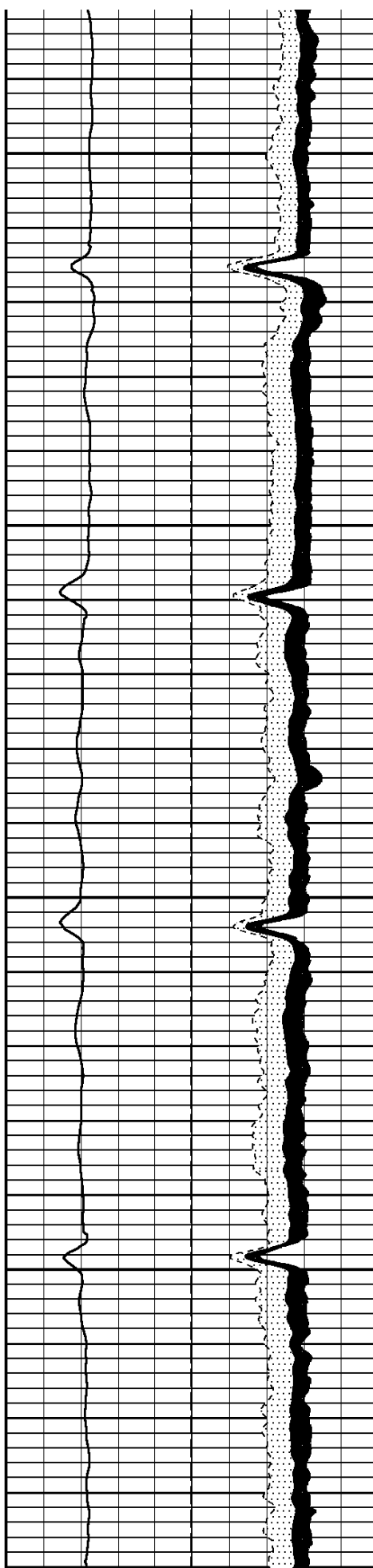


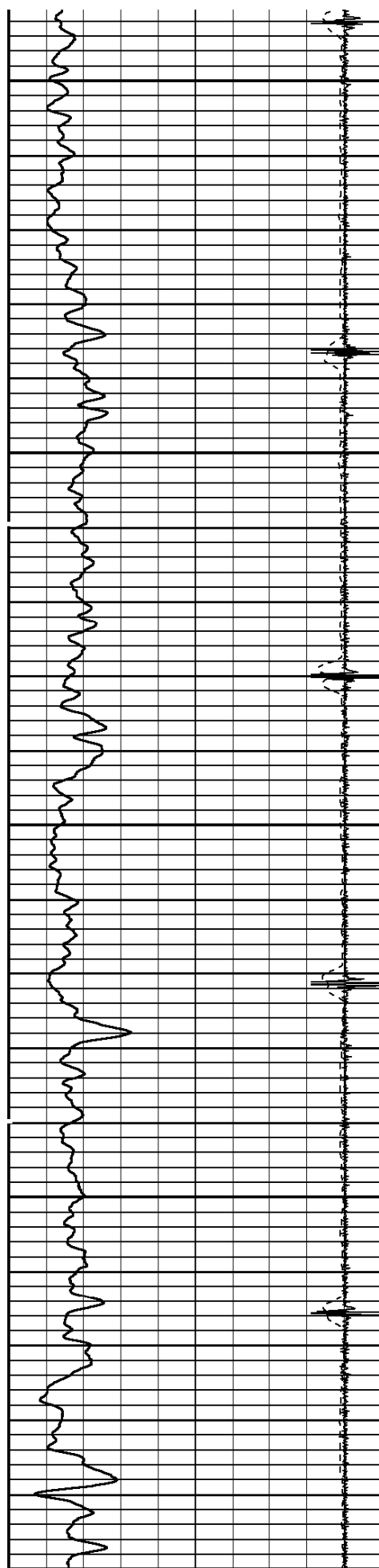




2400

2500

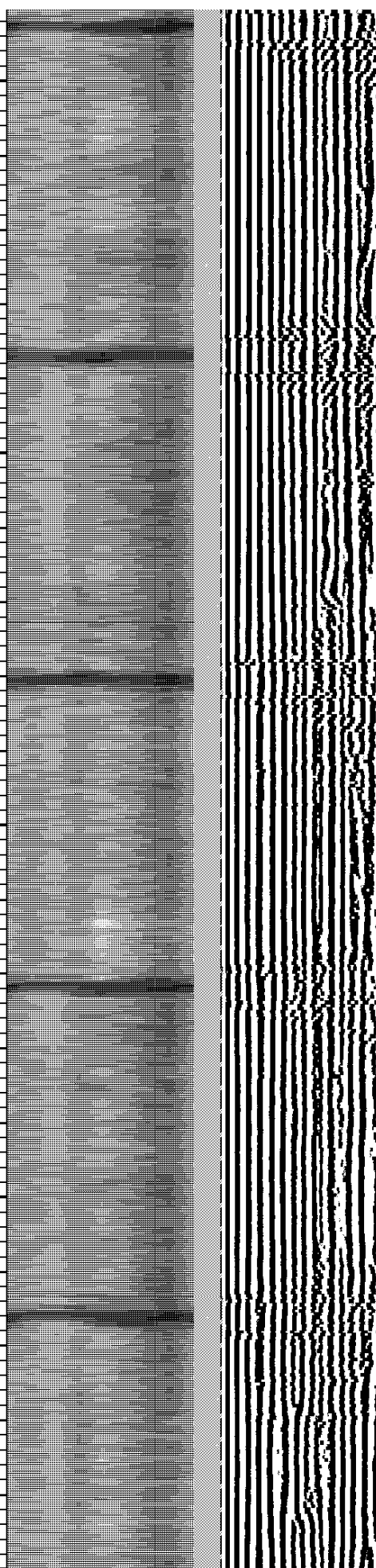
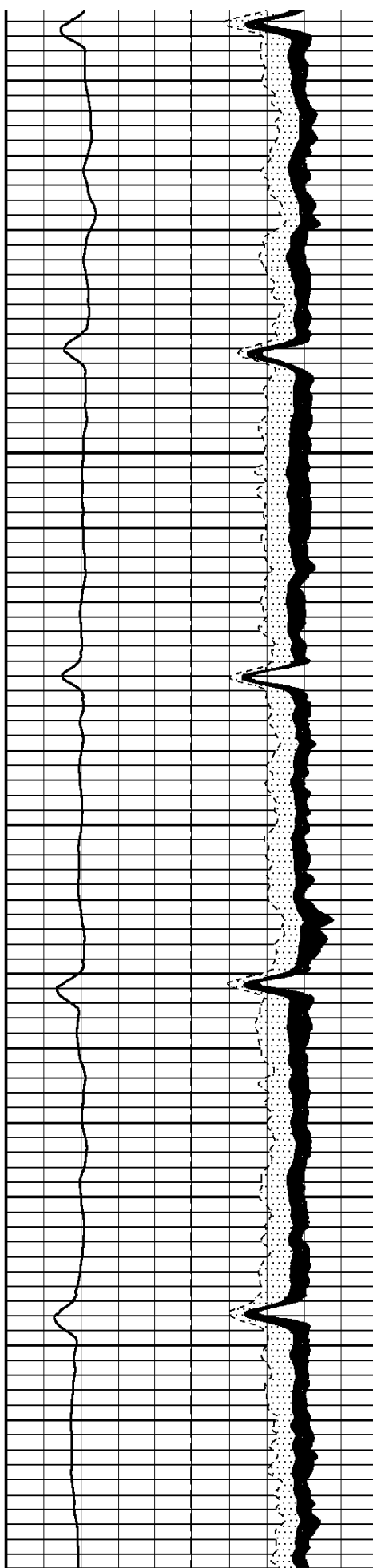


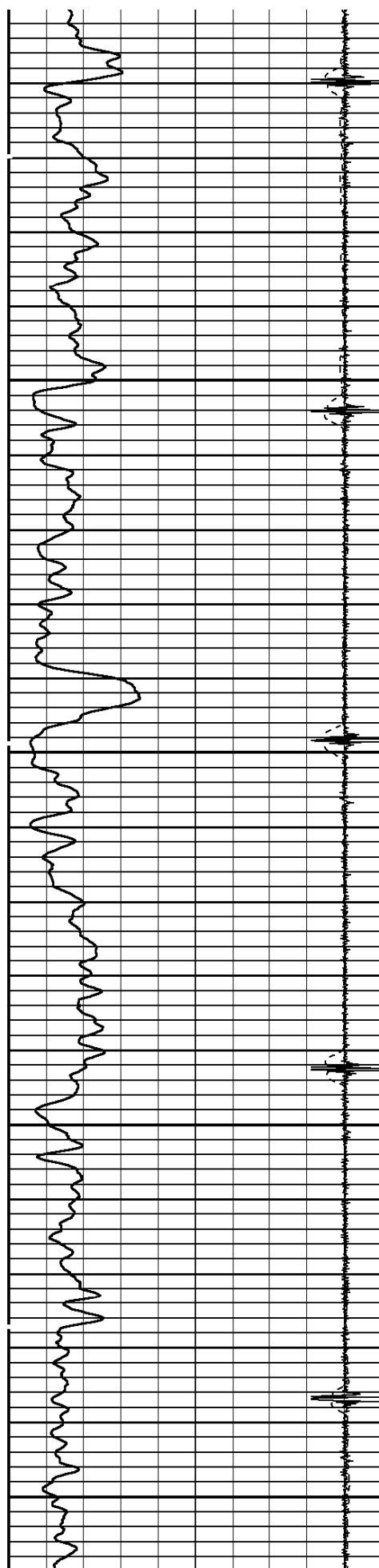


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2700

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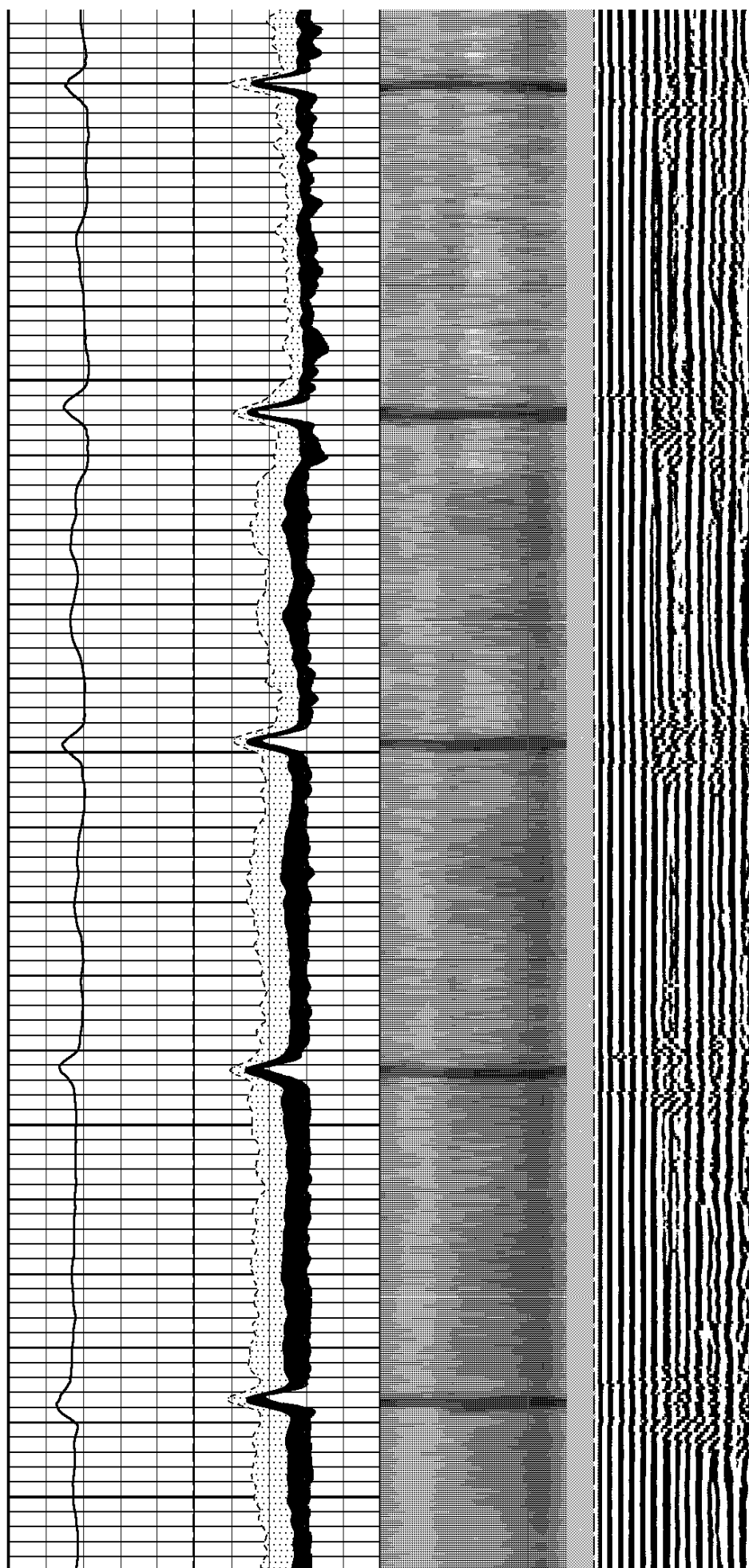


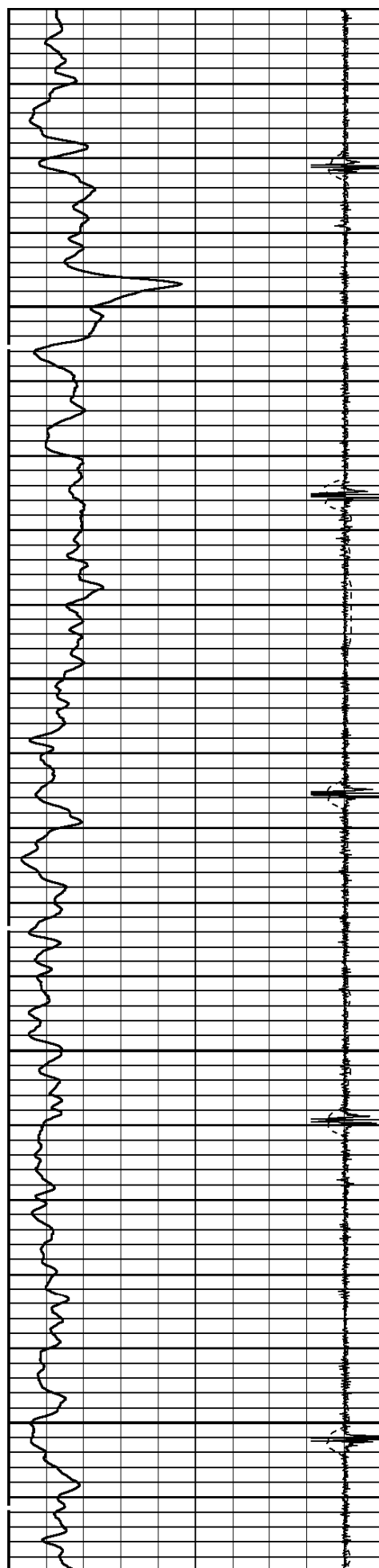


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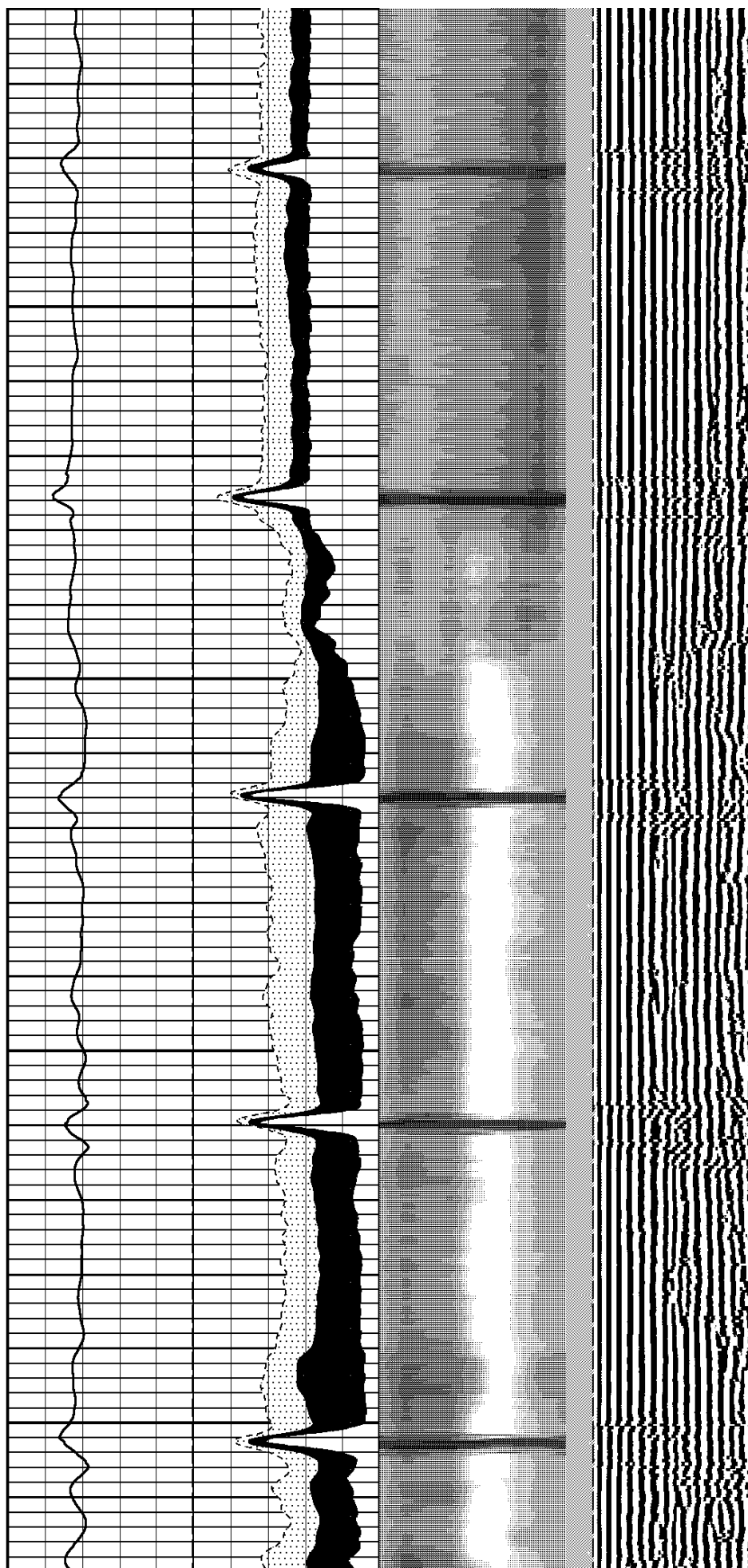
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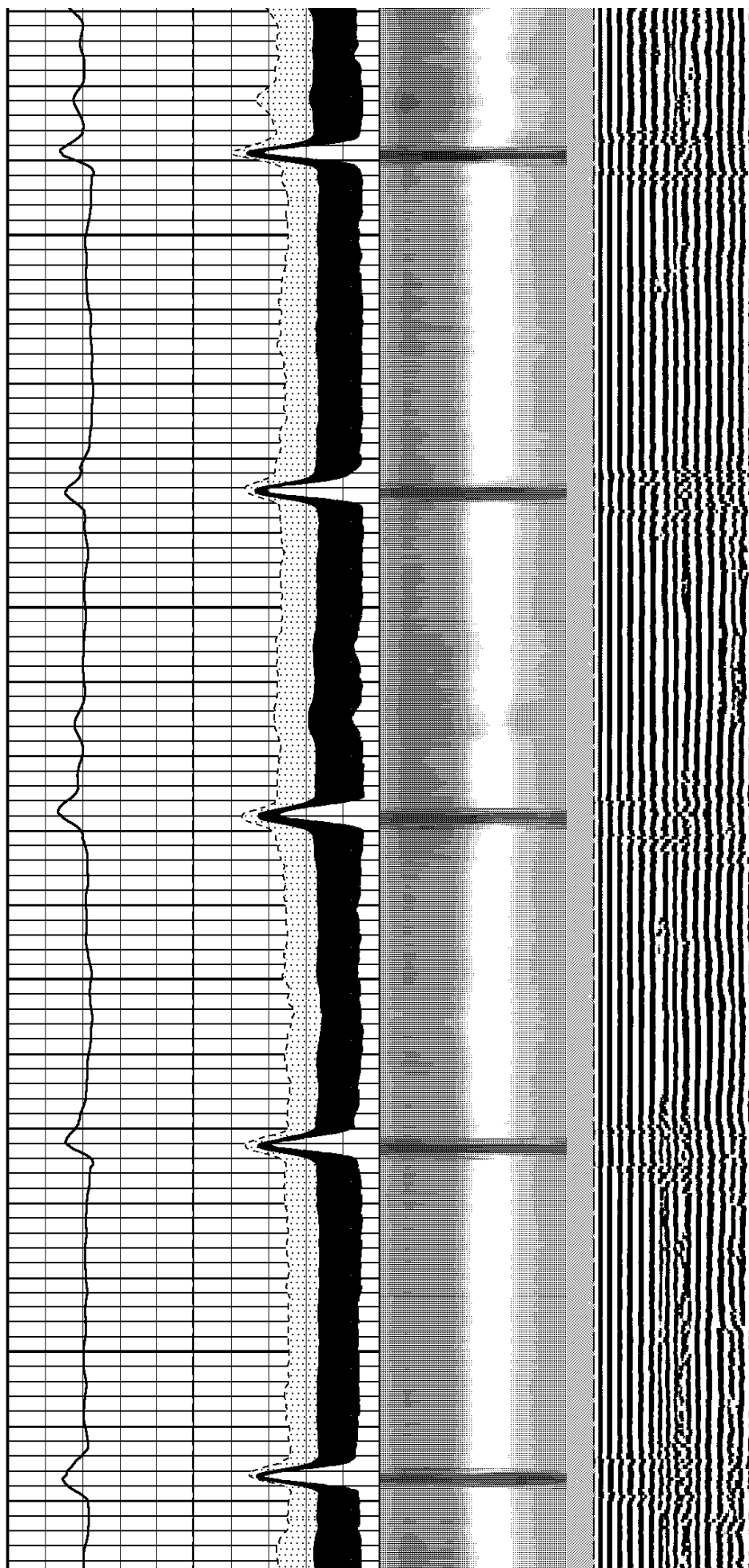
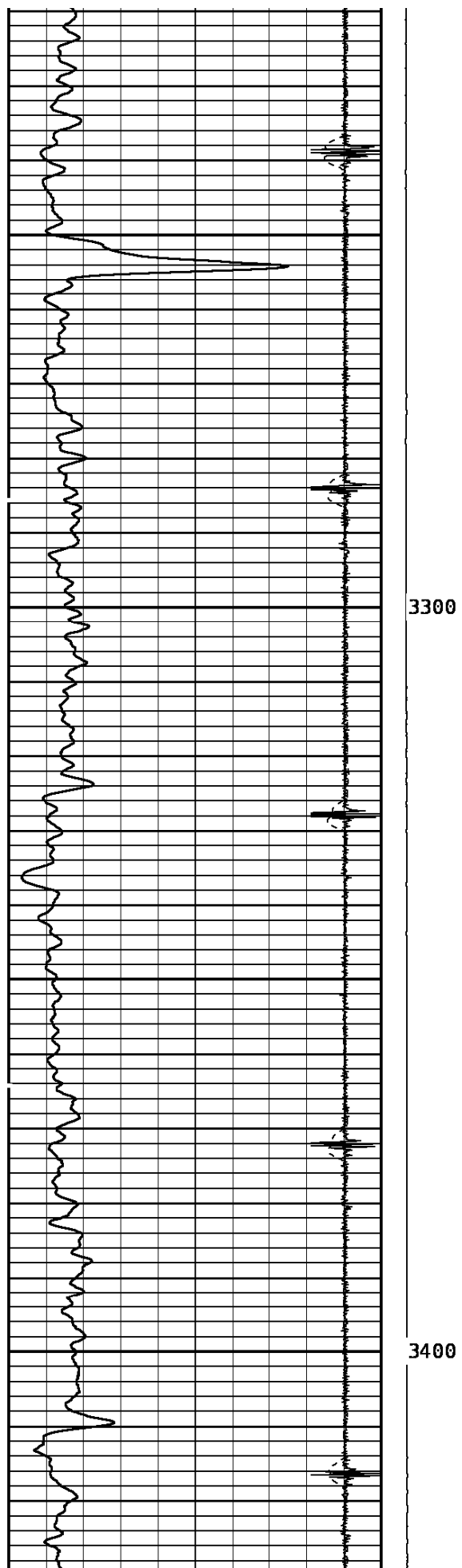




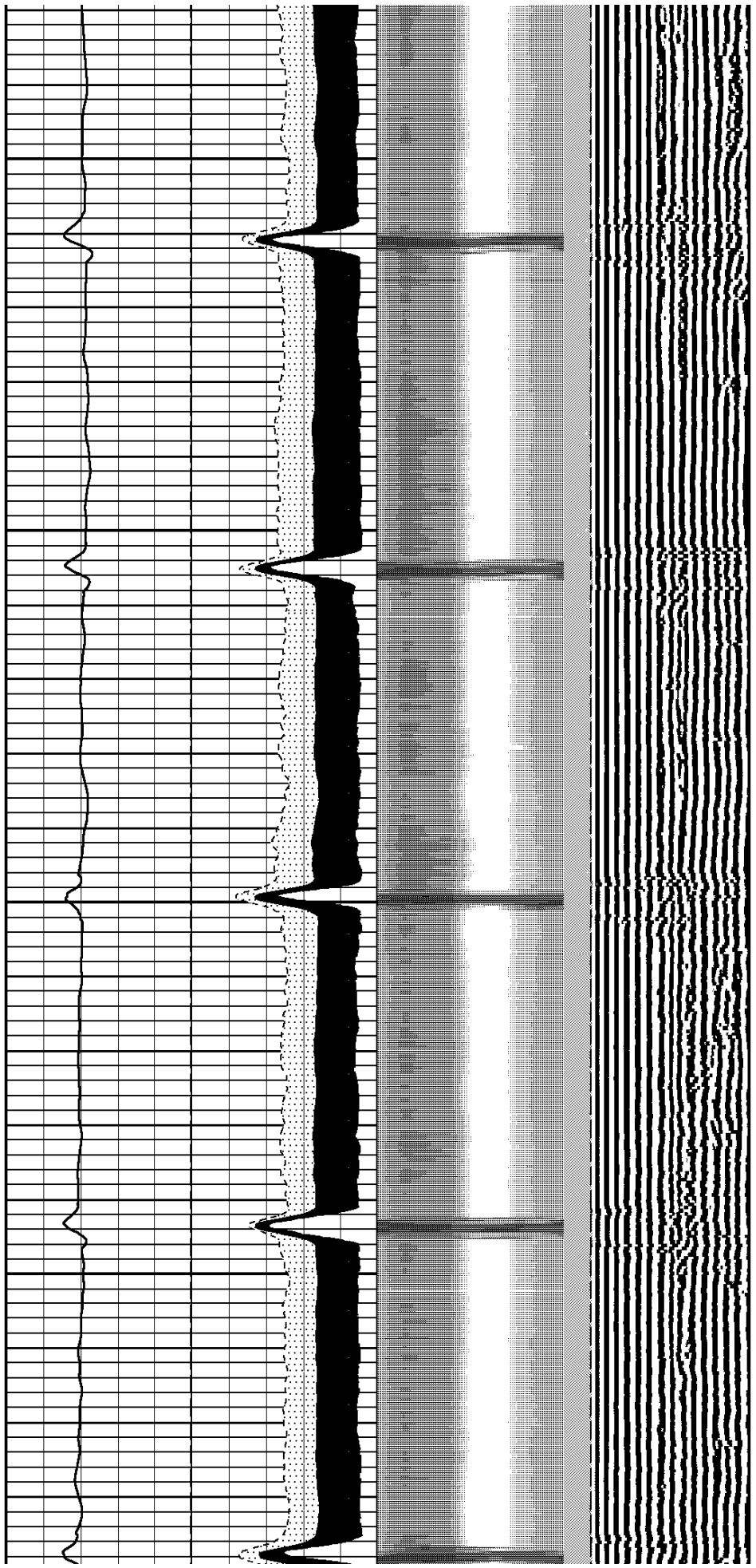
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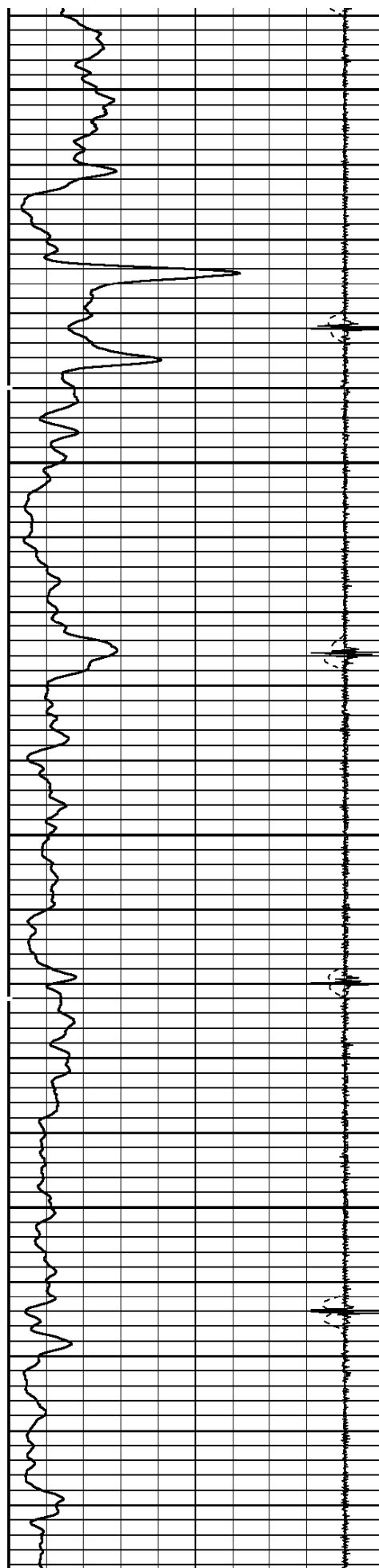
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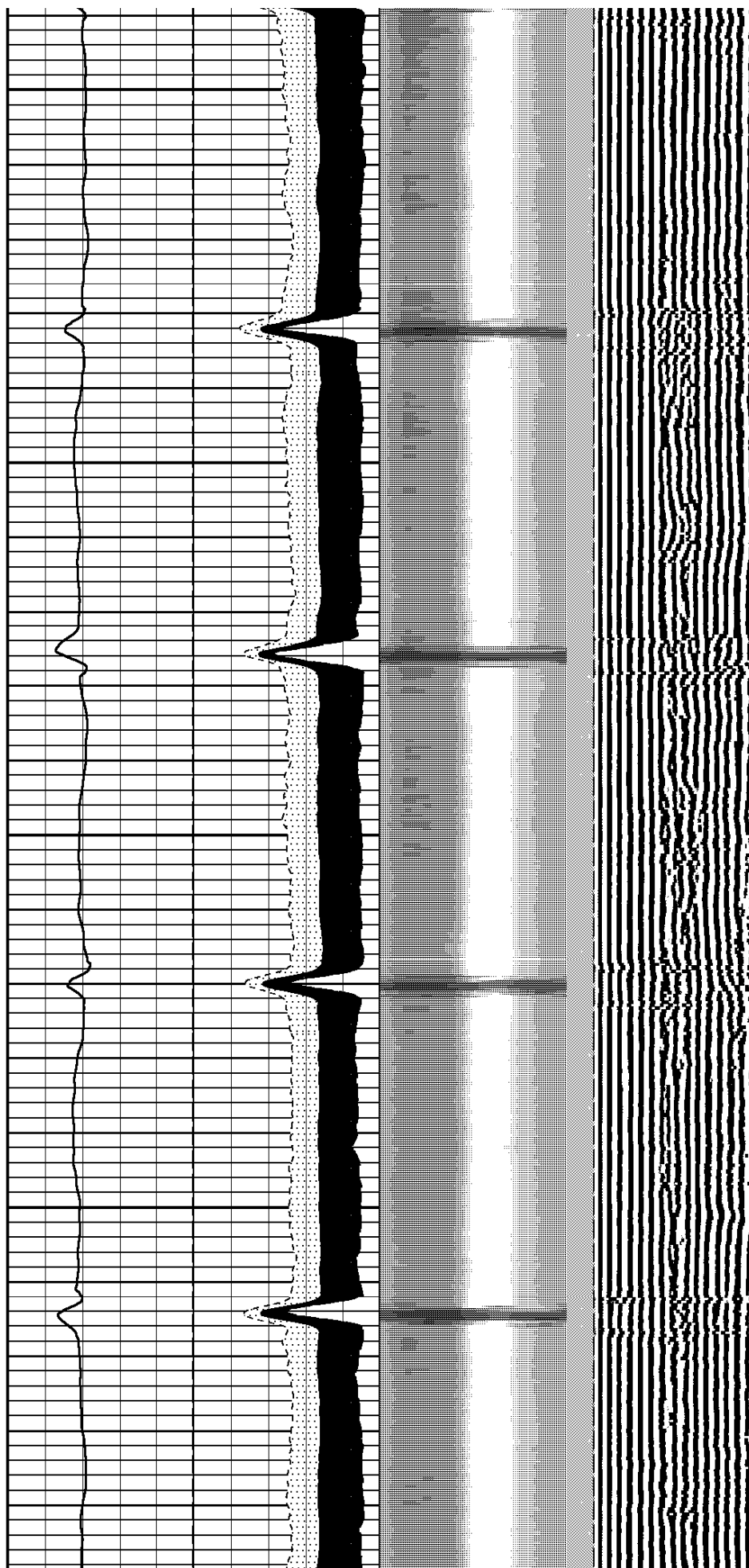
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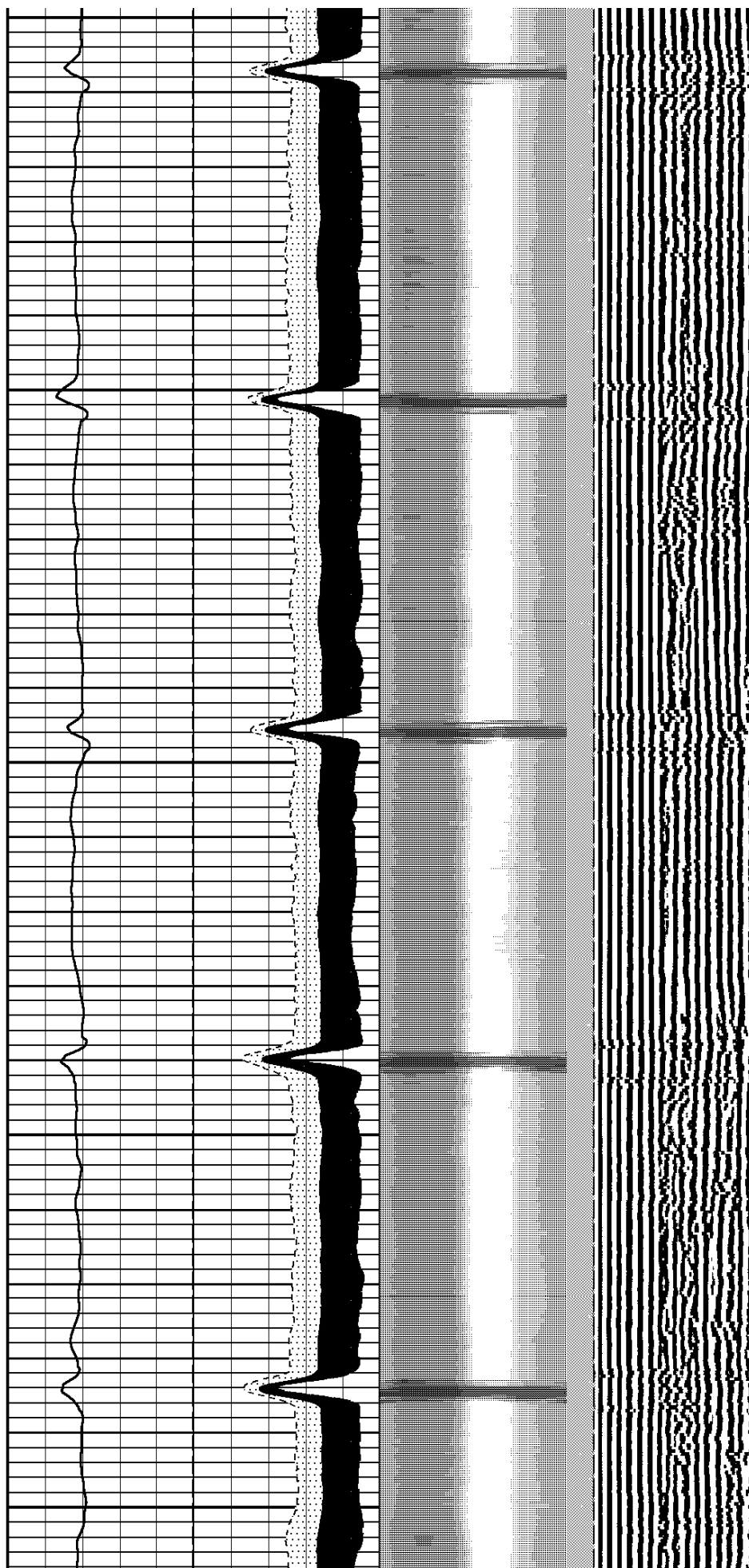
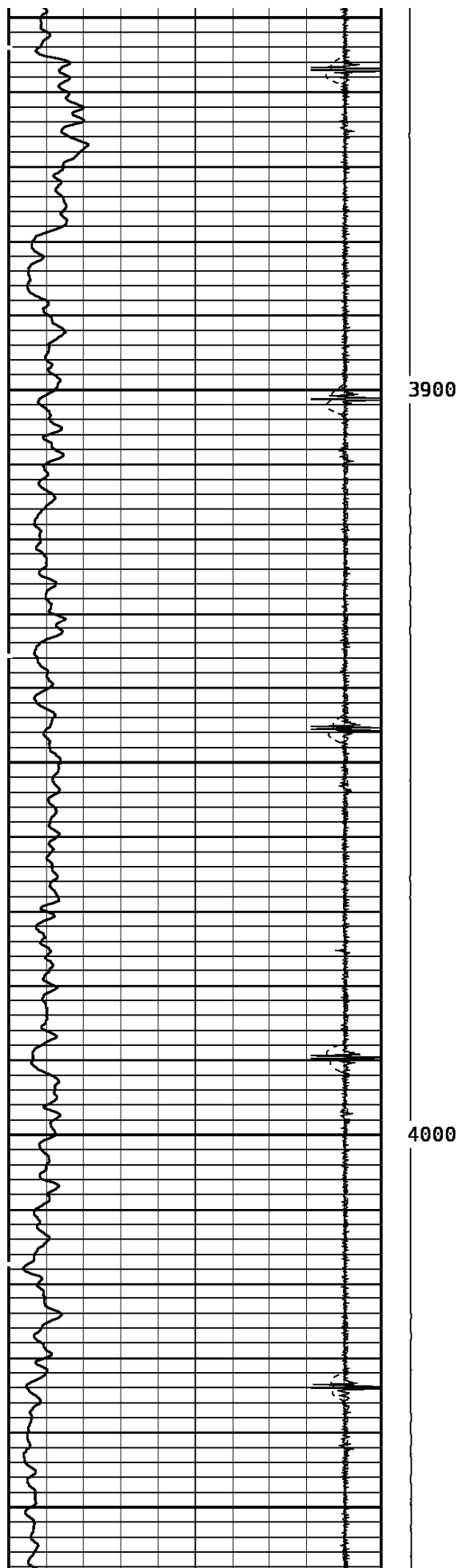


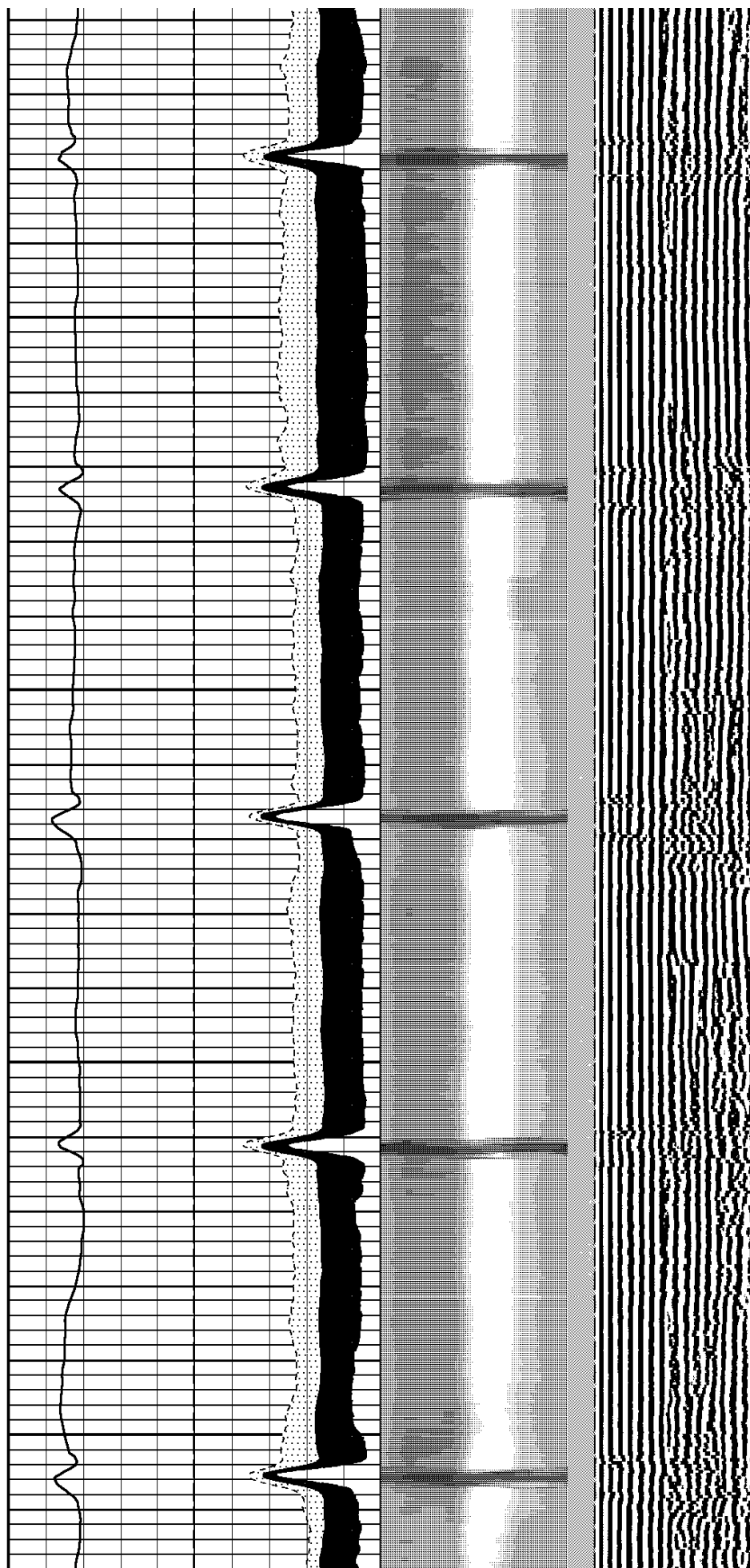
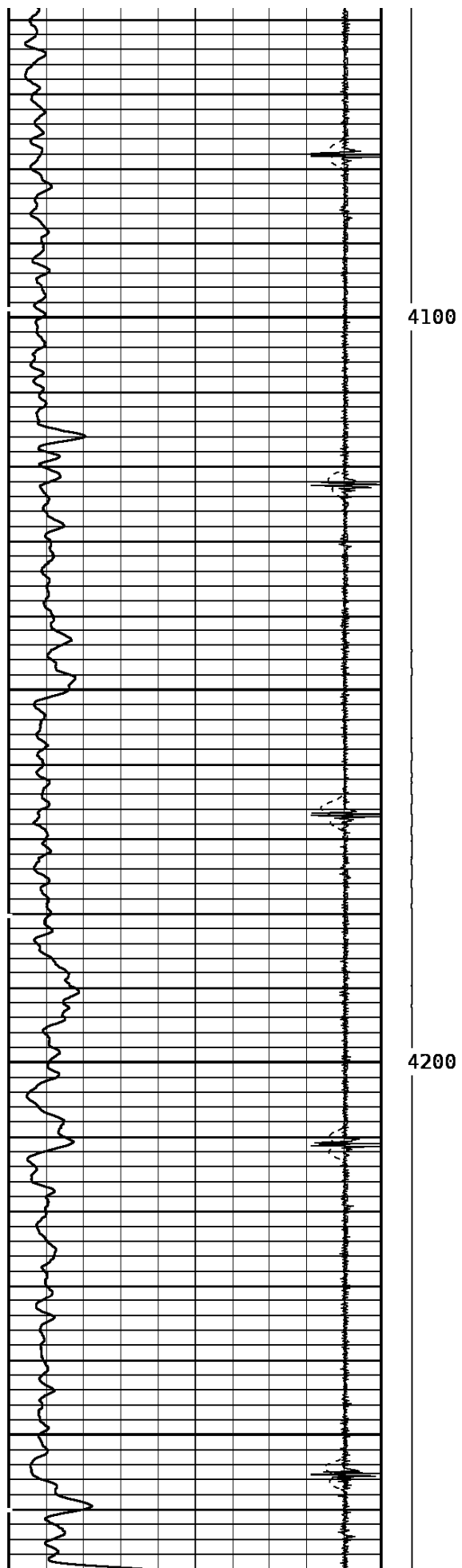


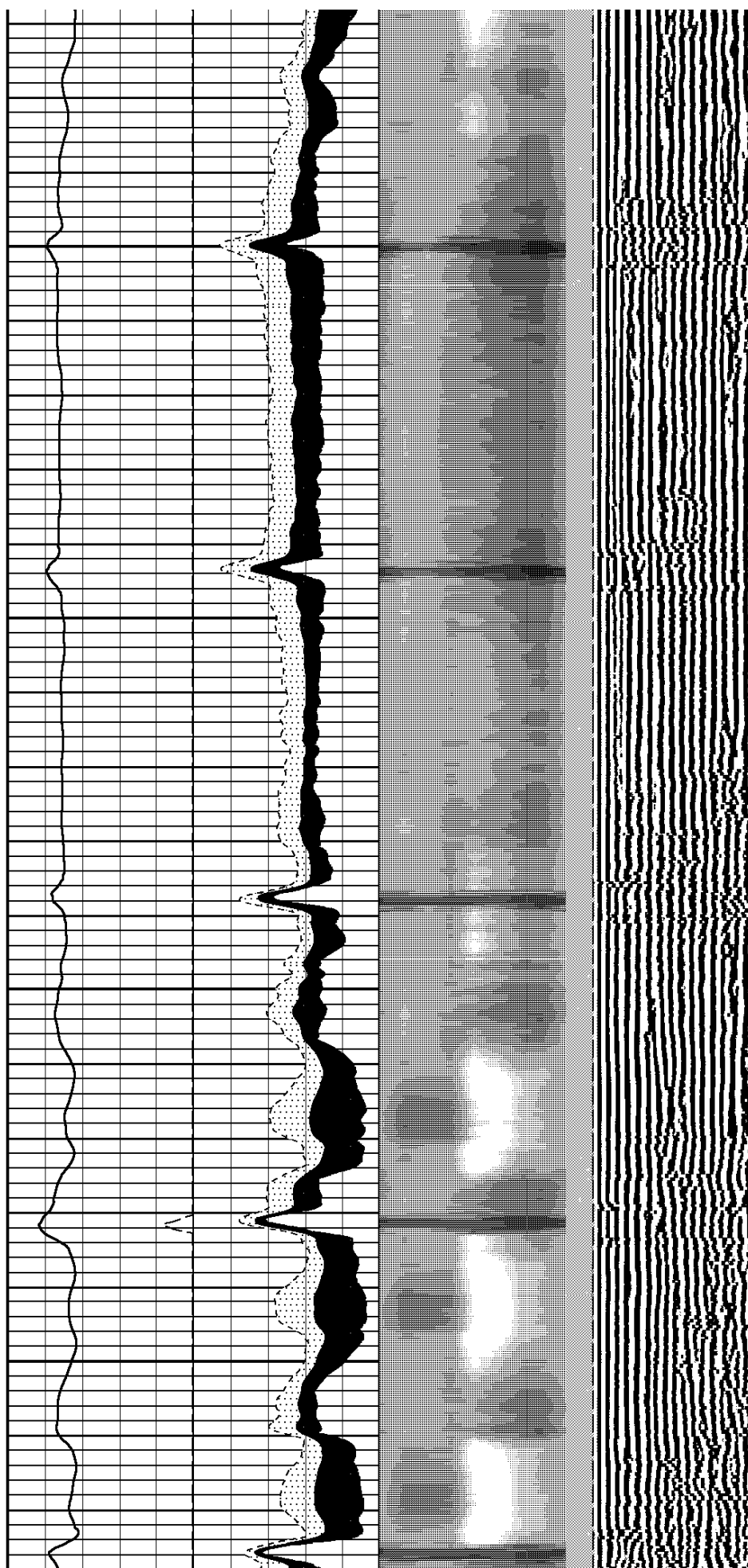
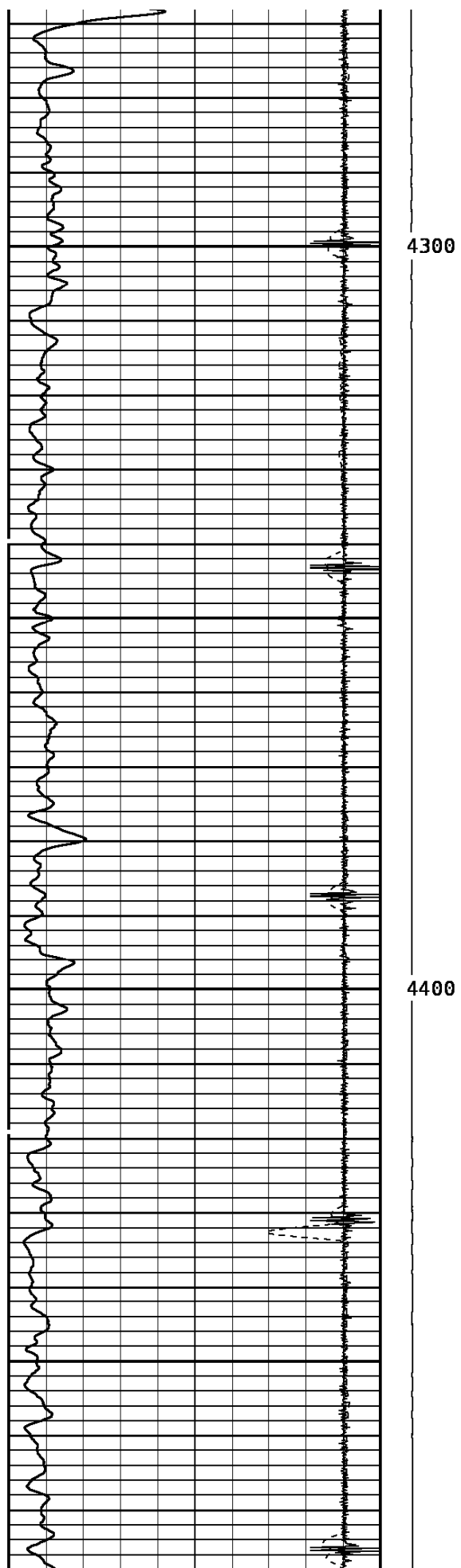
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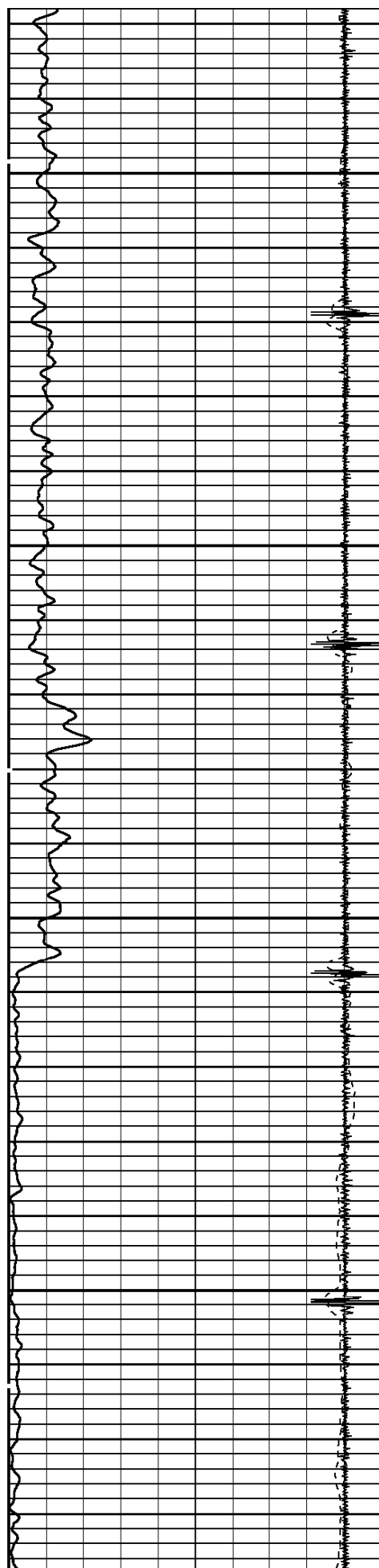
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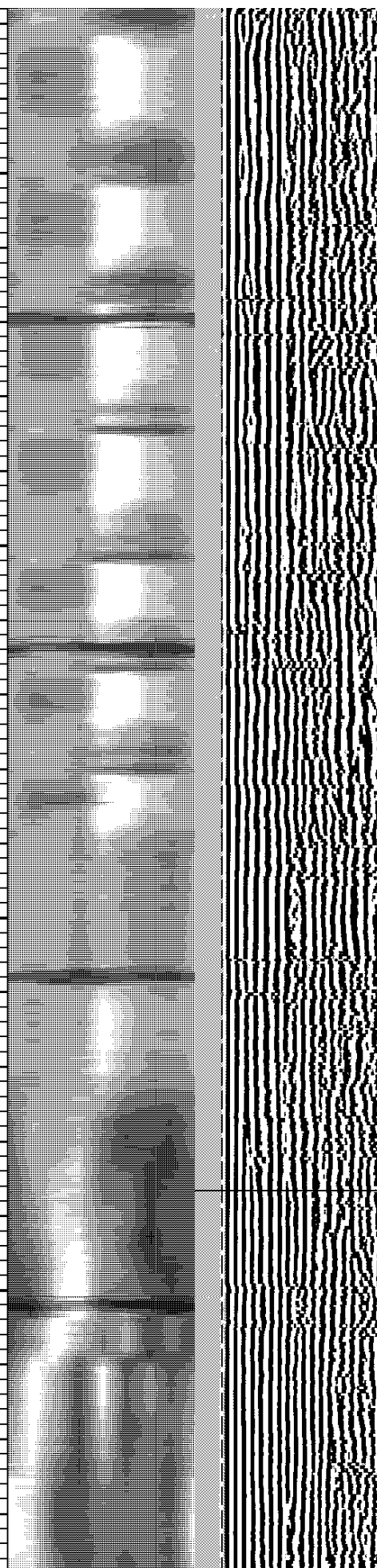
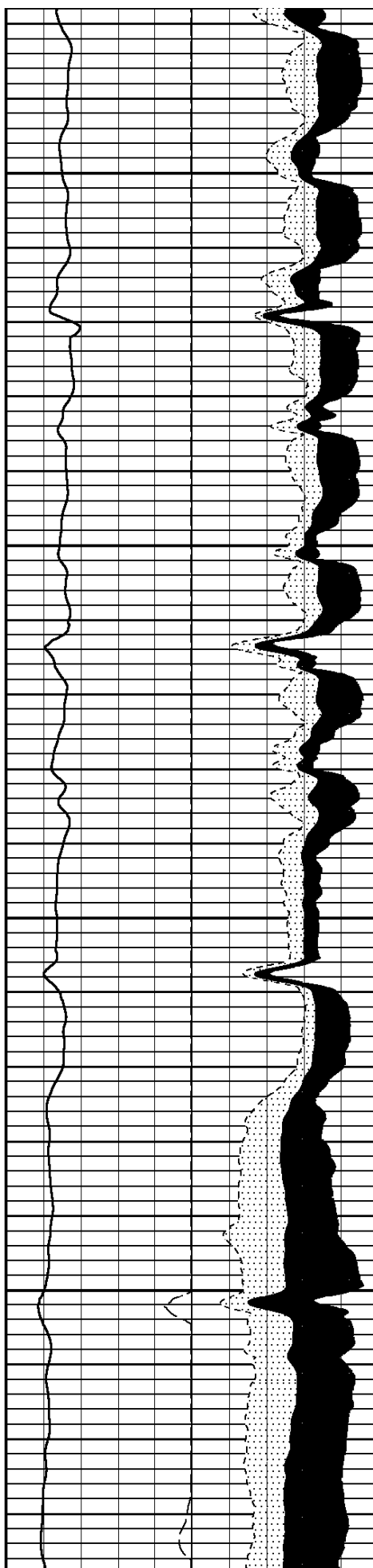


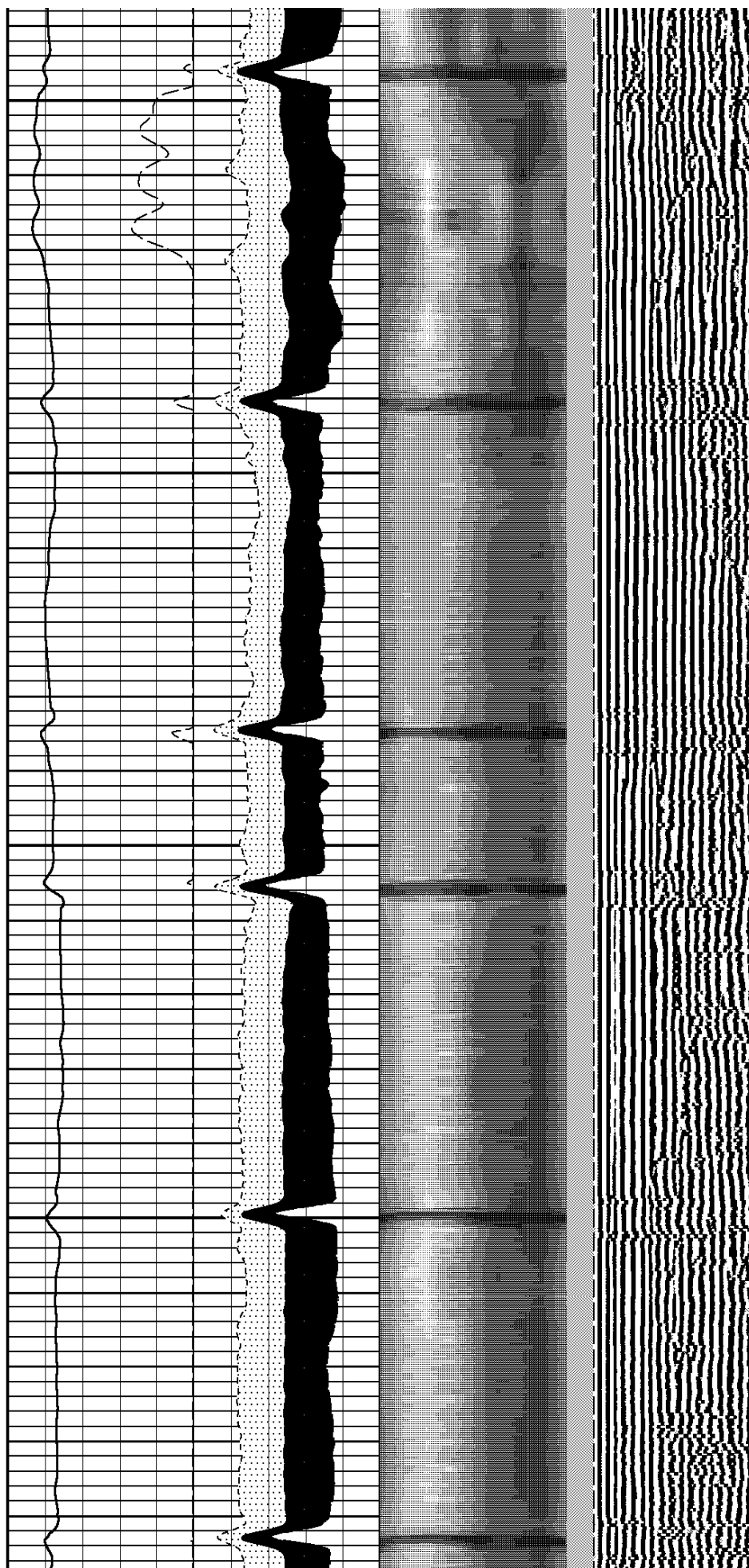
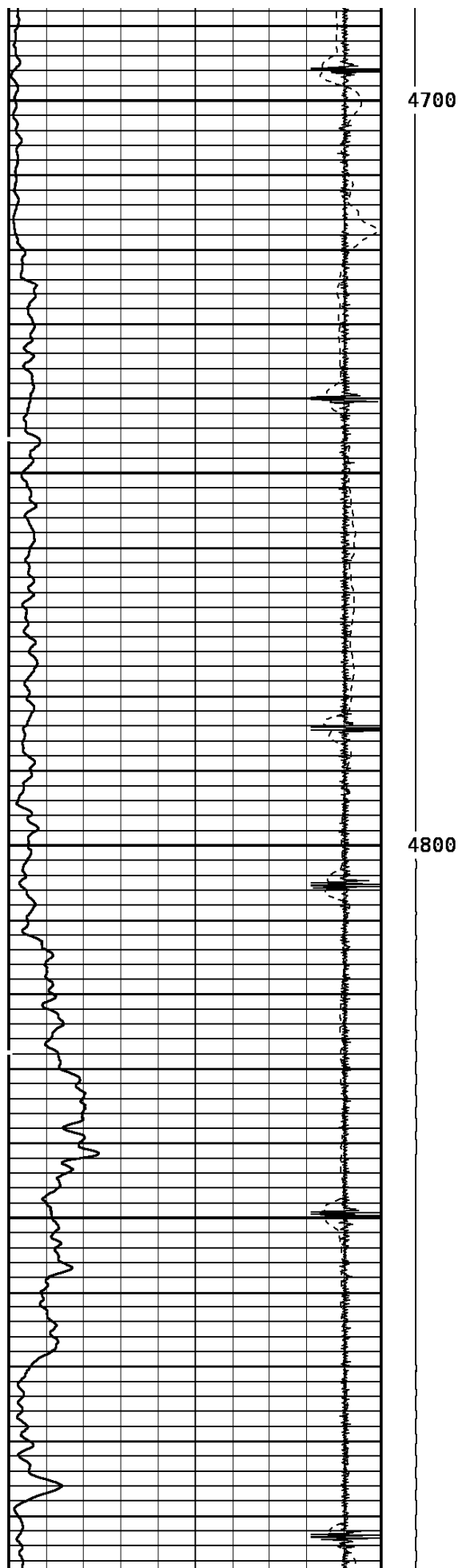


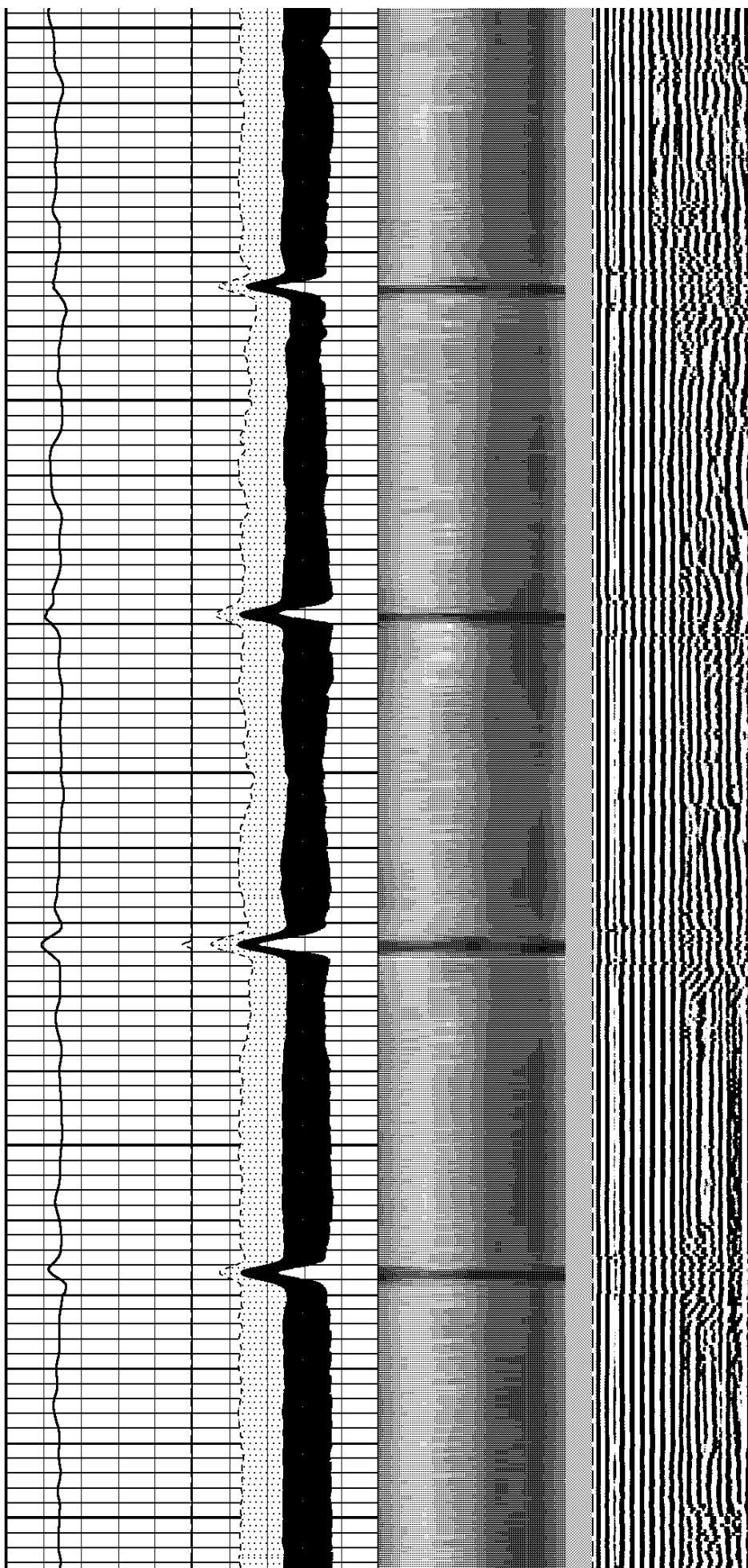
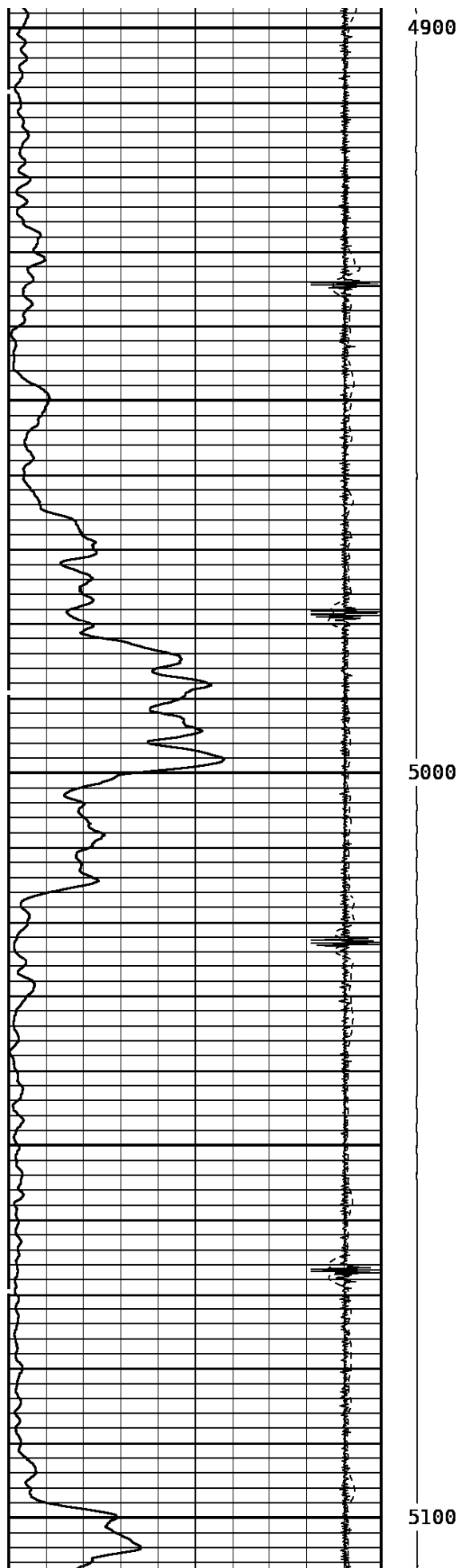


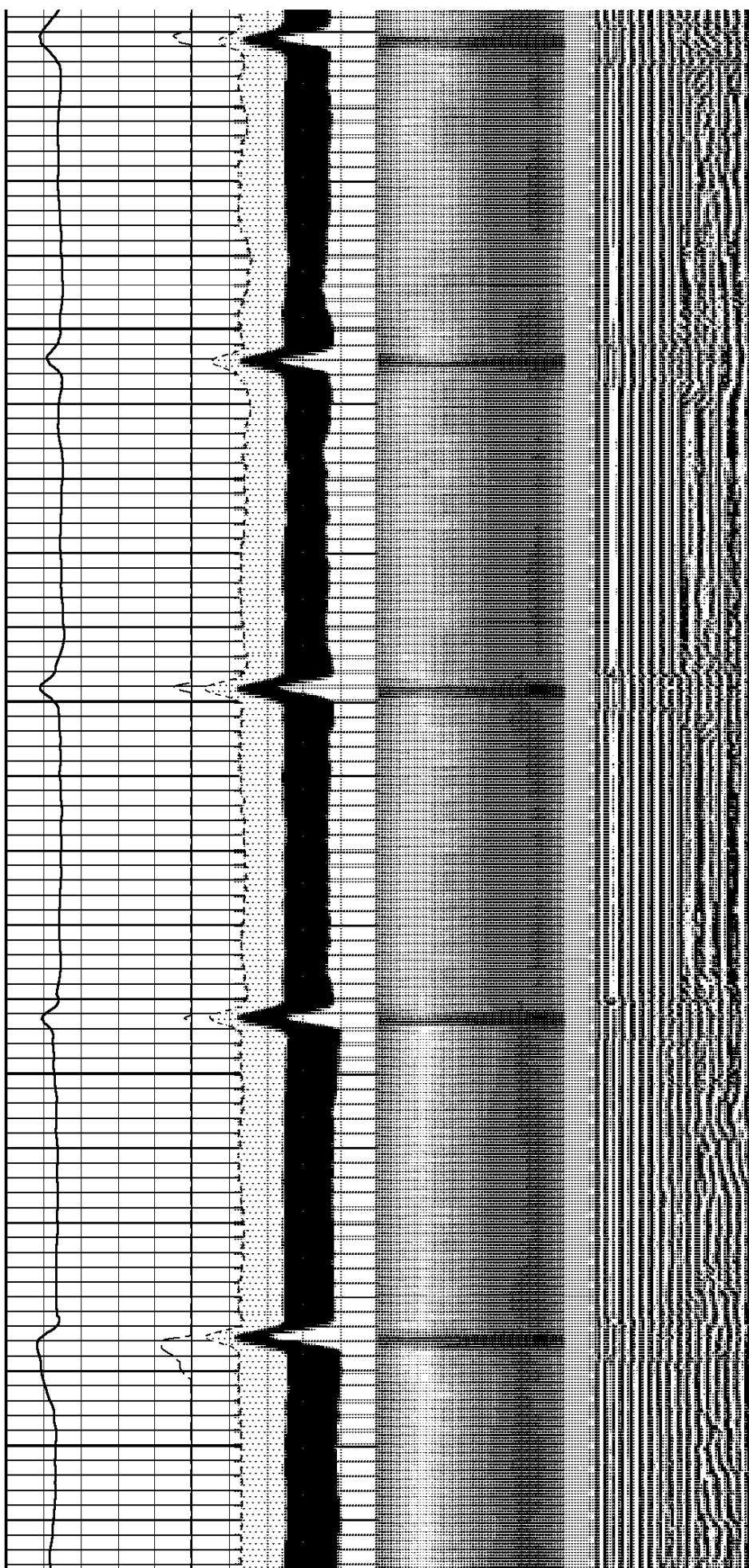
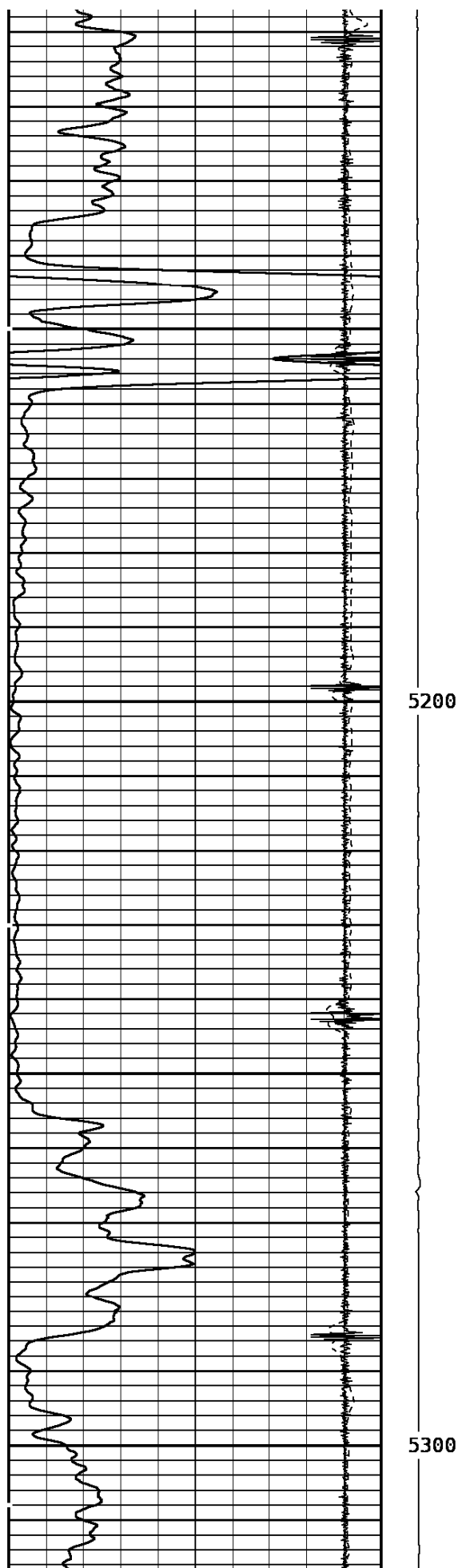
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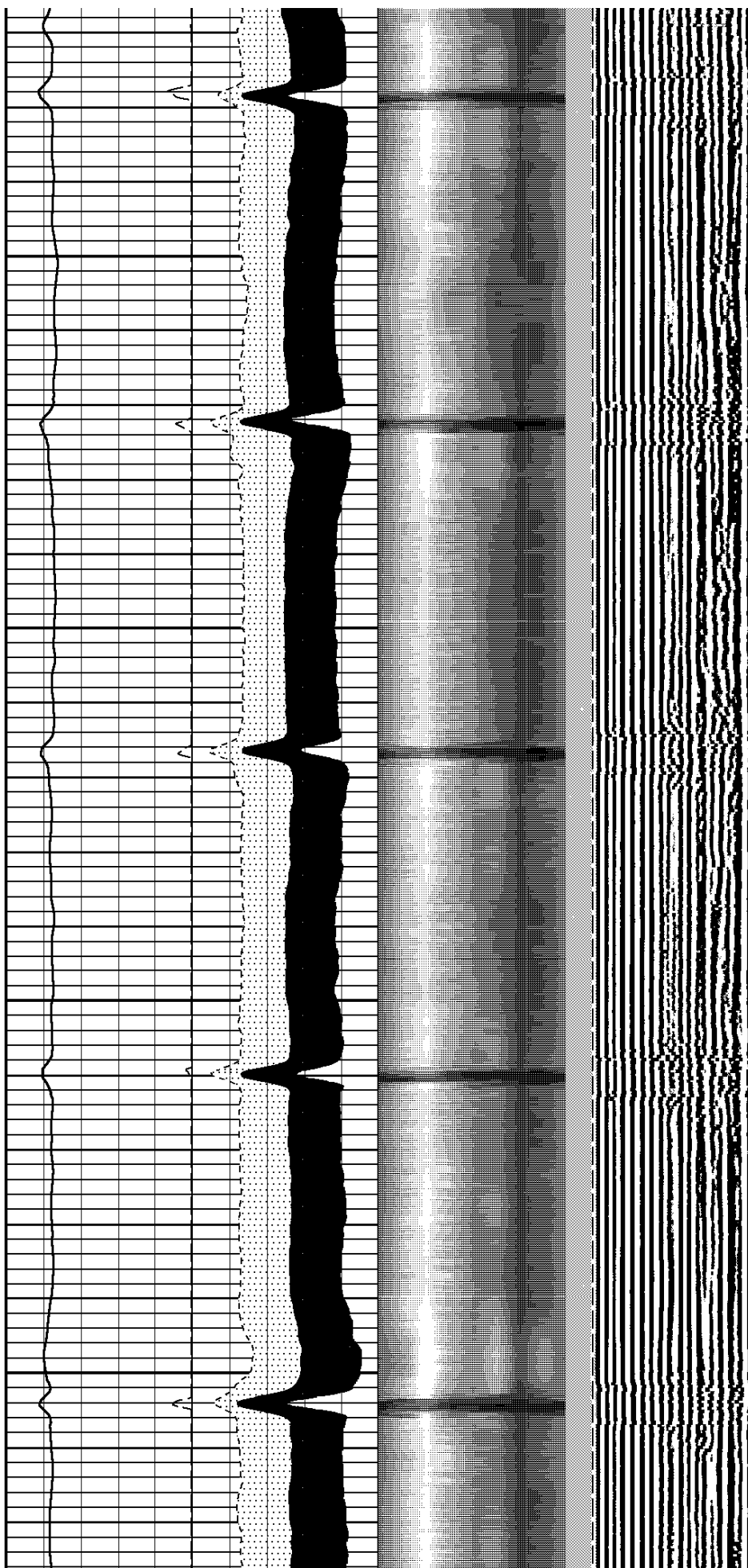
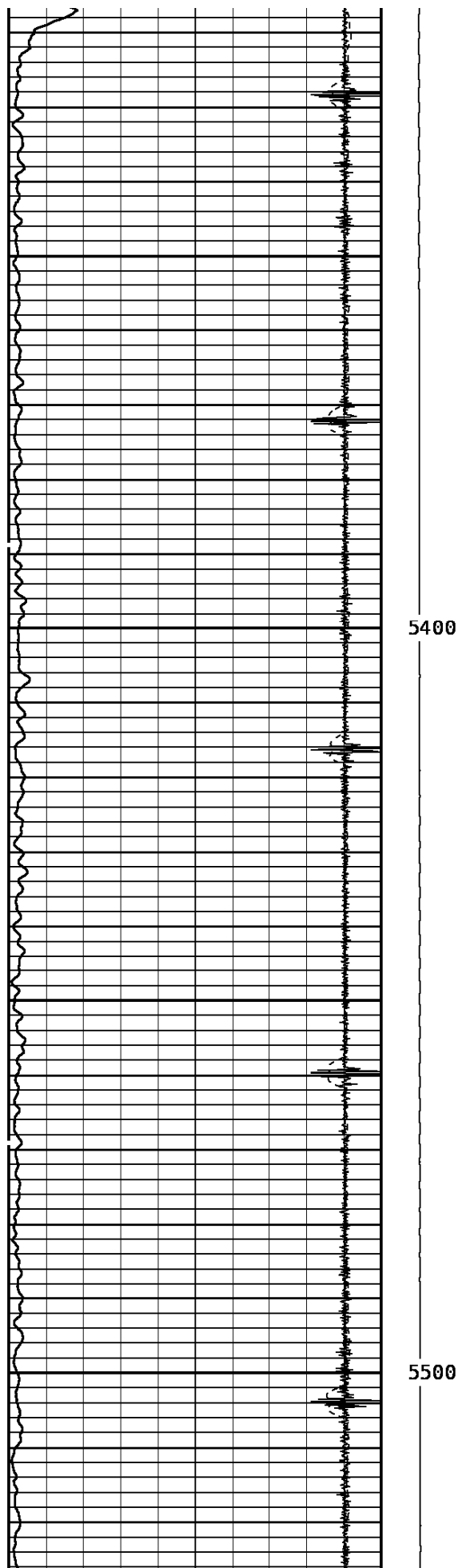
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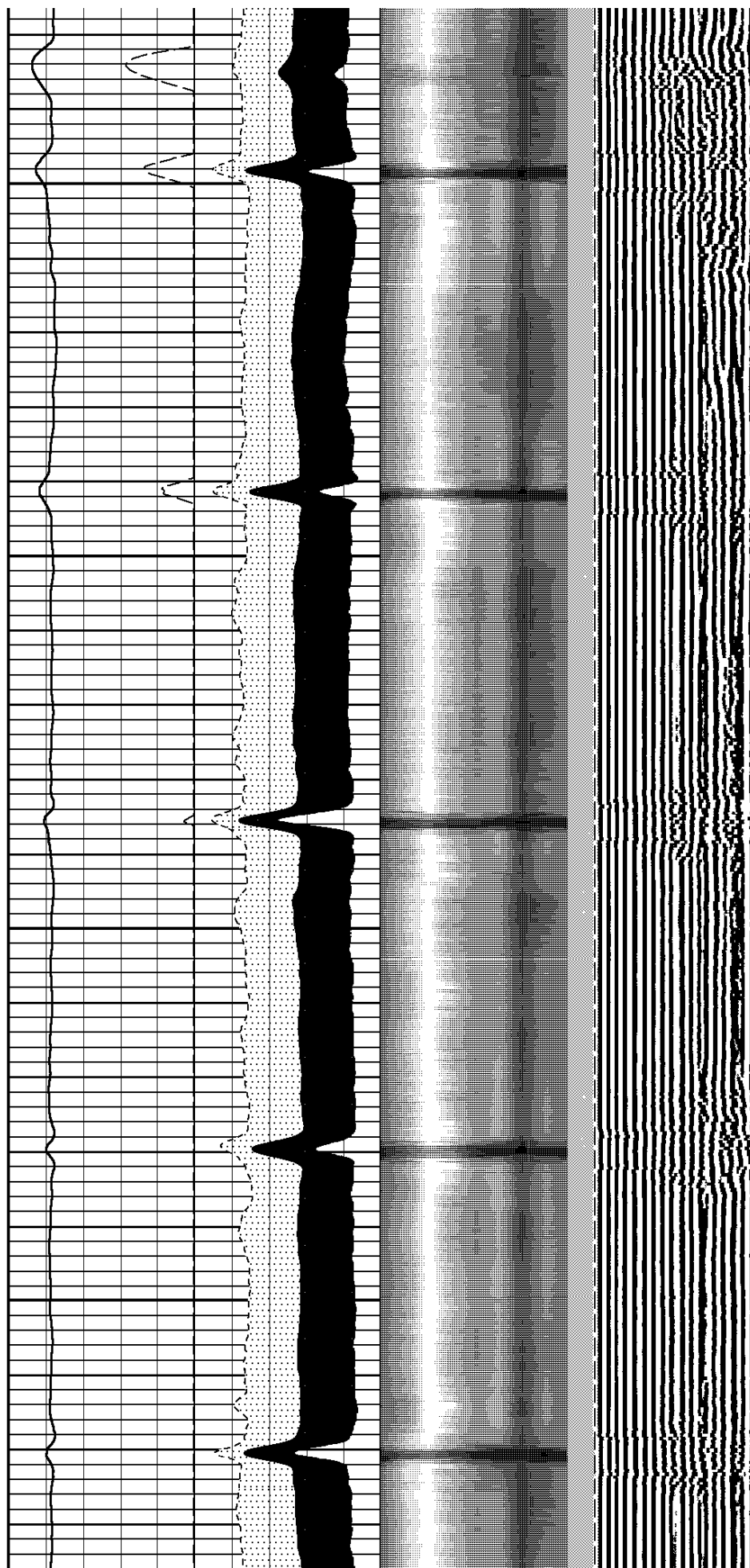
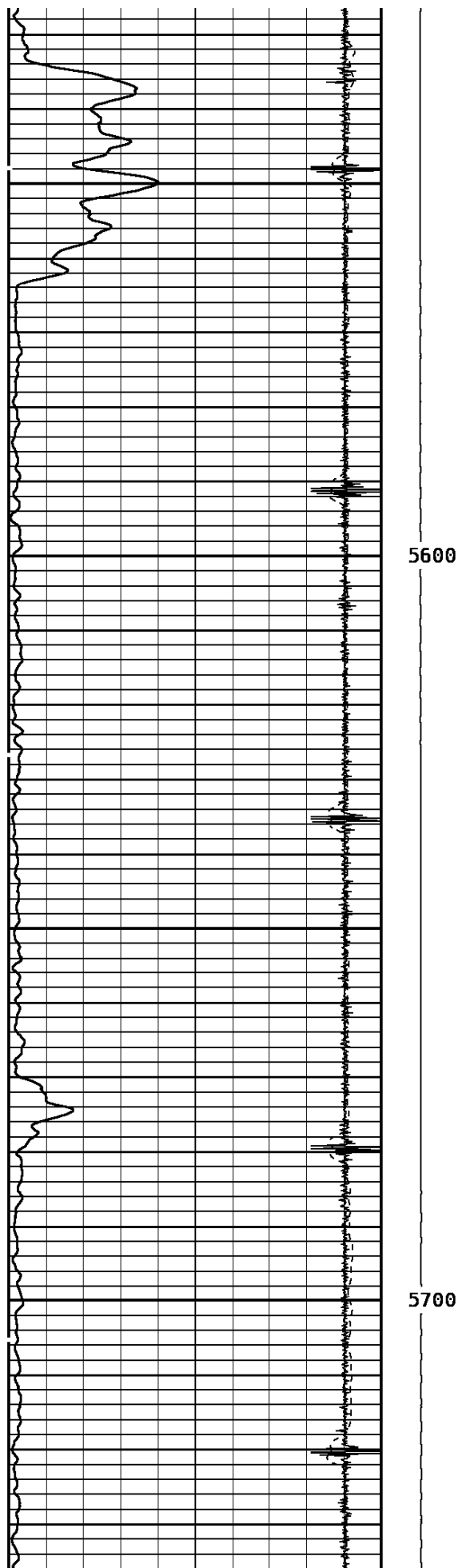


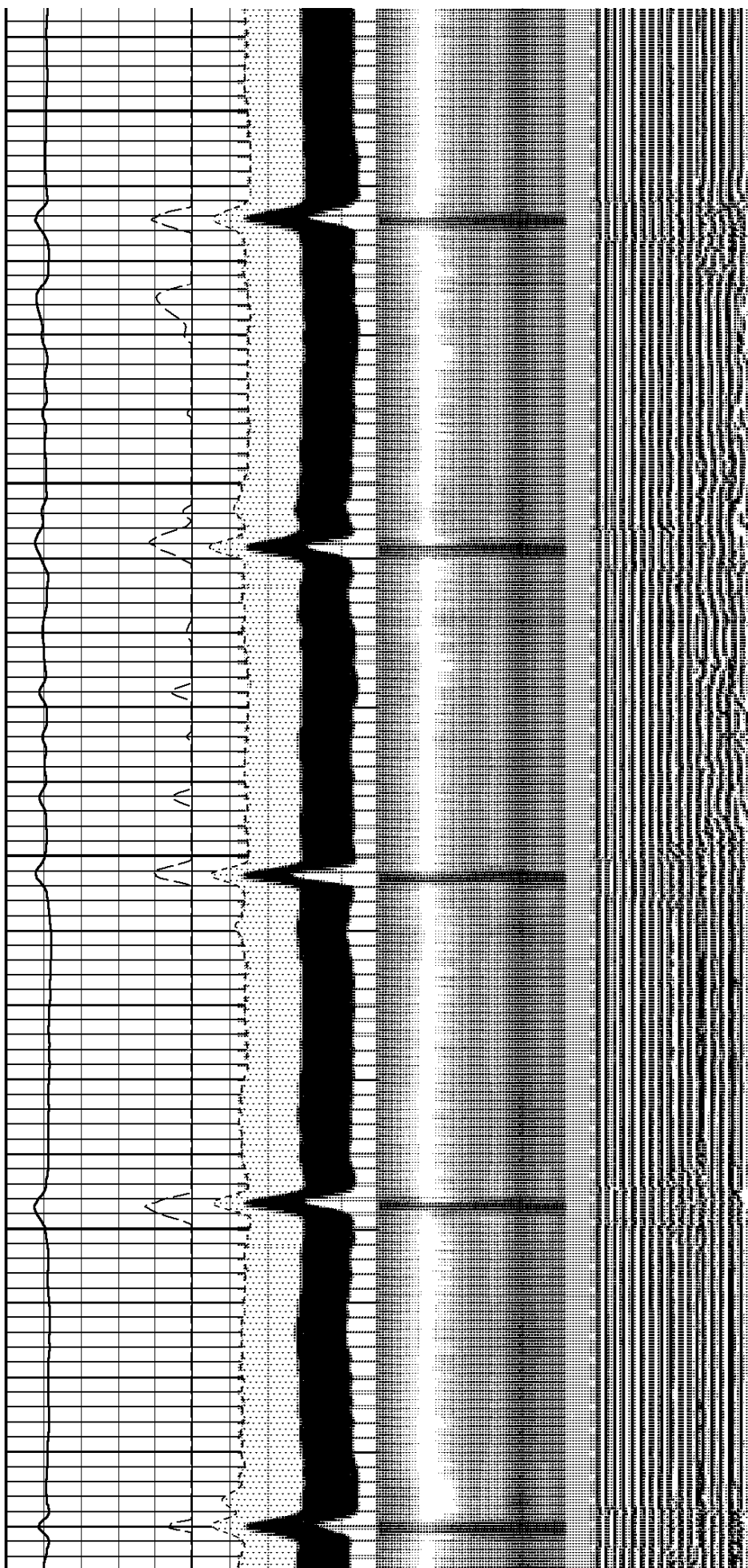
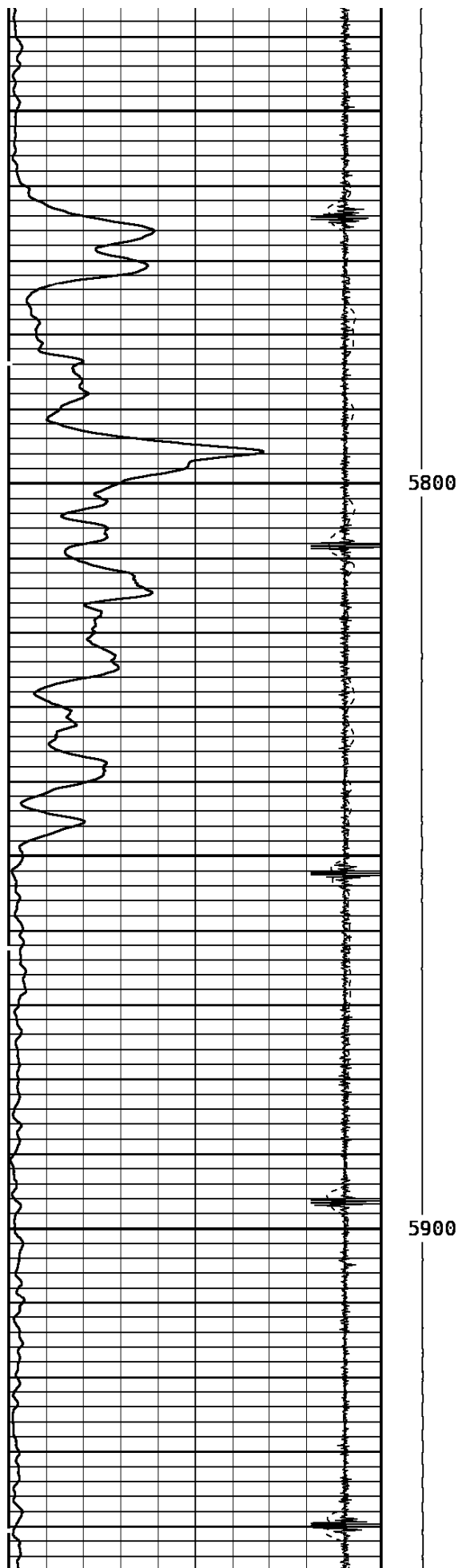


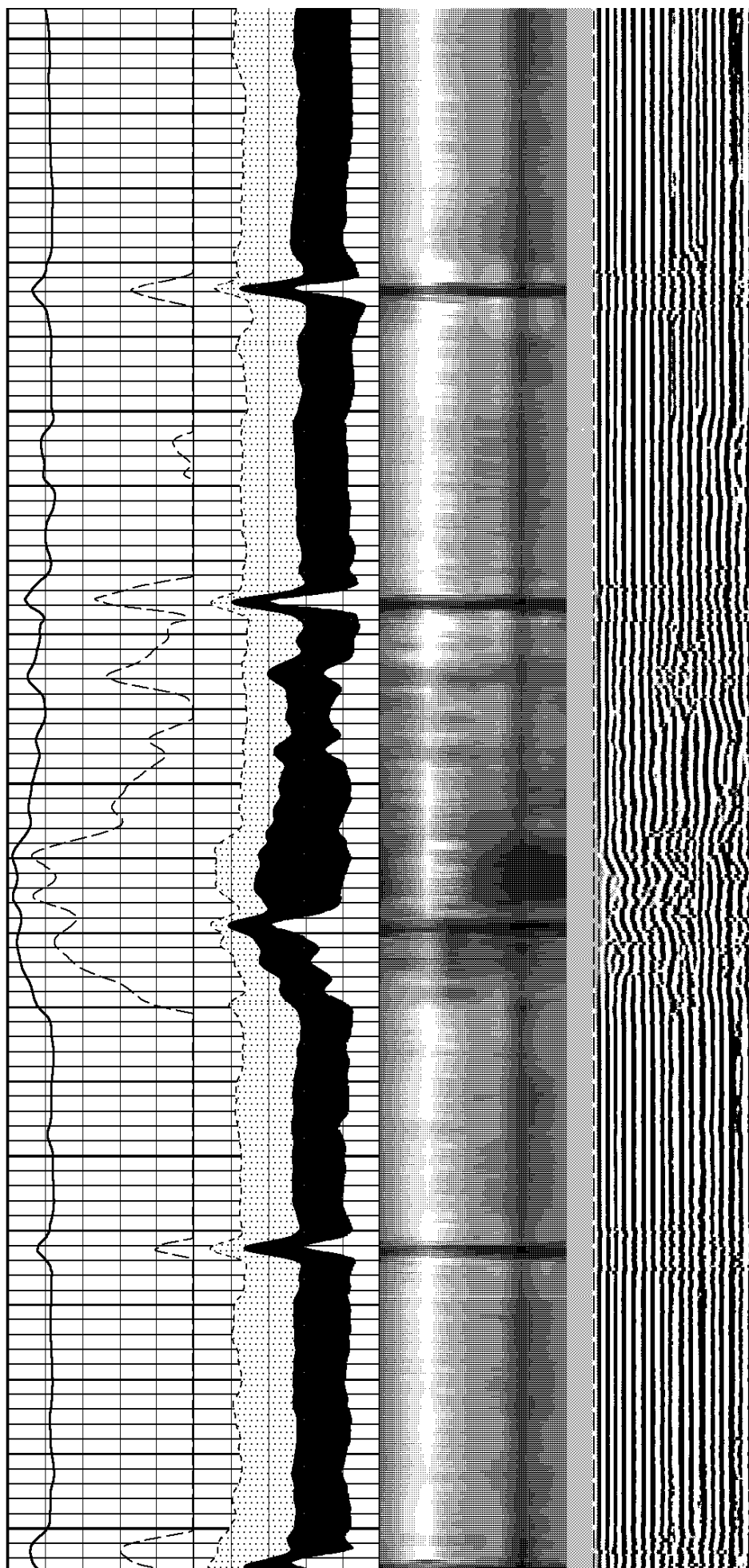
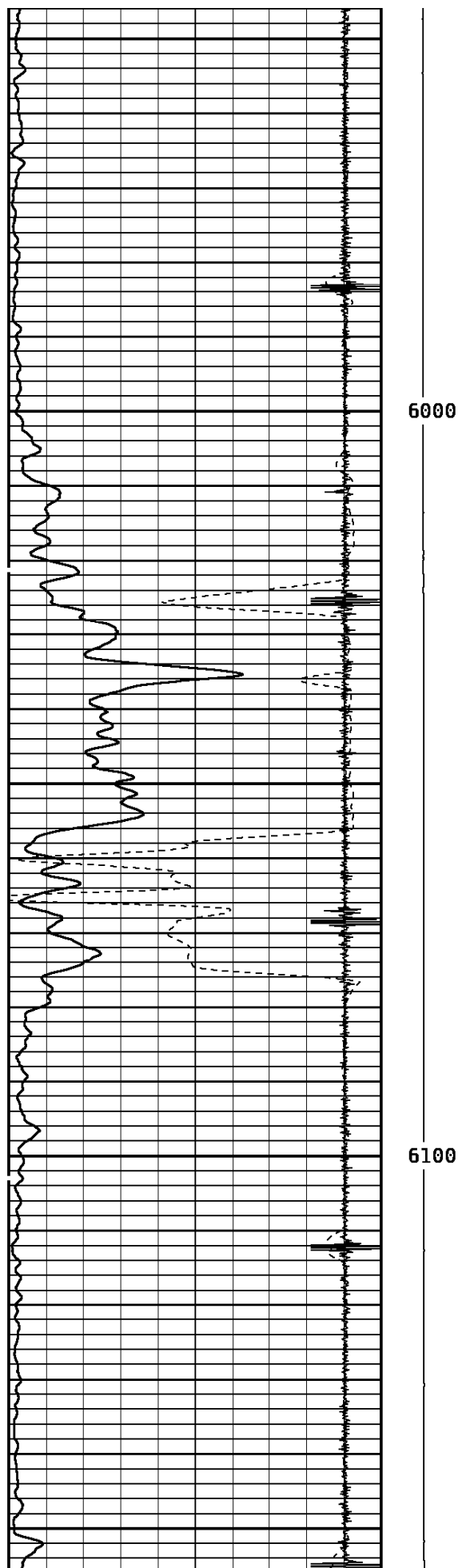


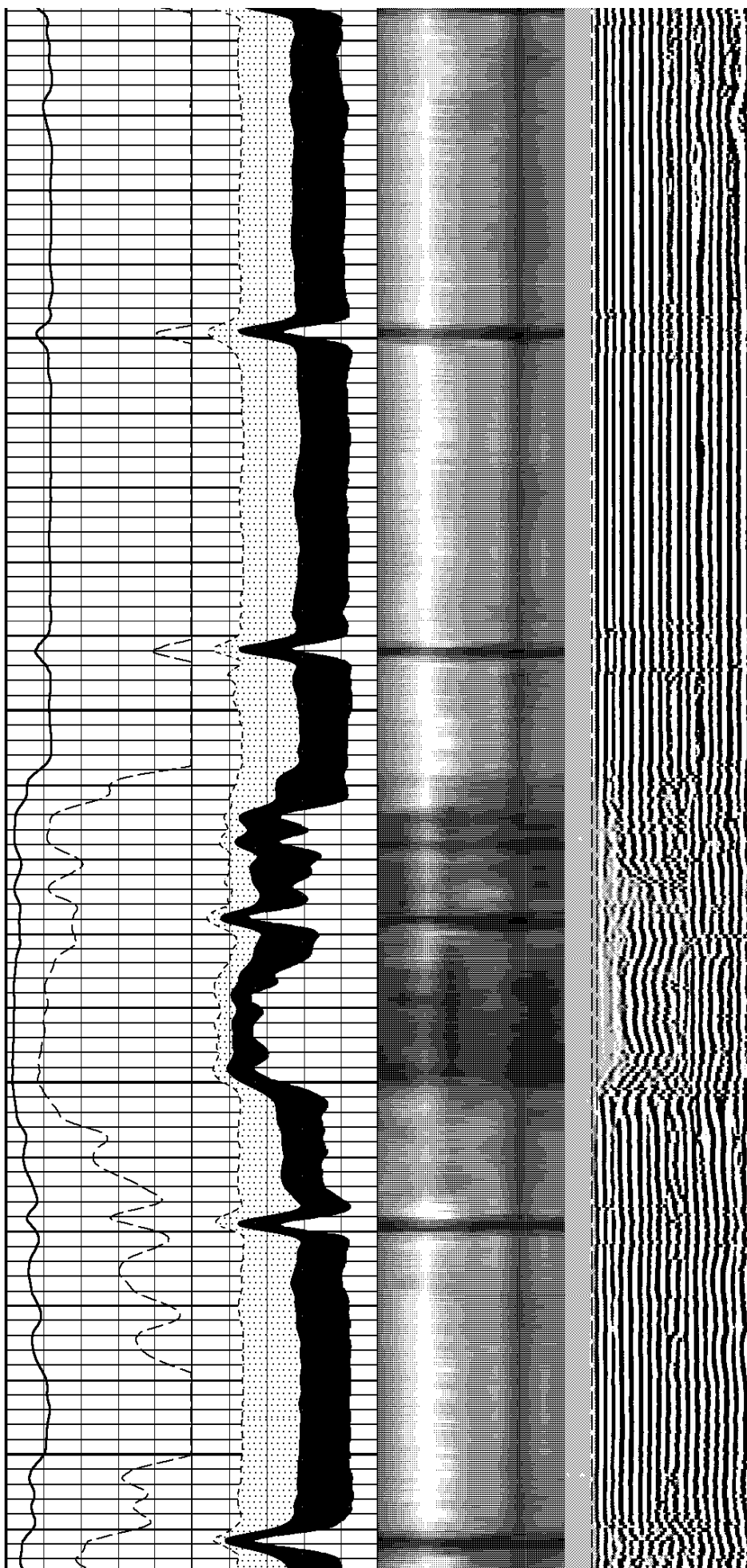
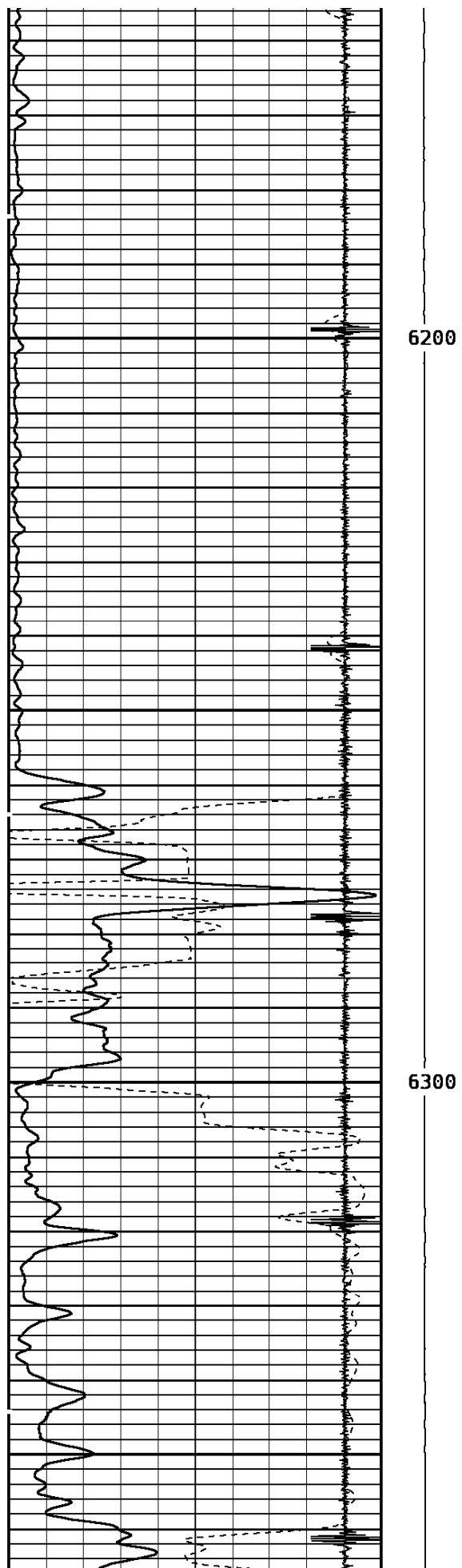


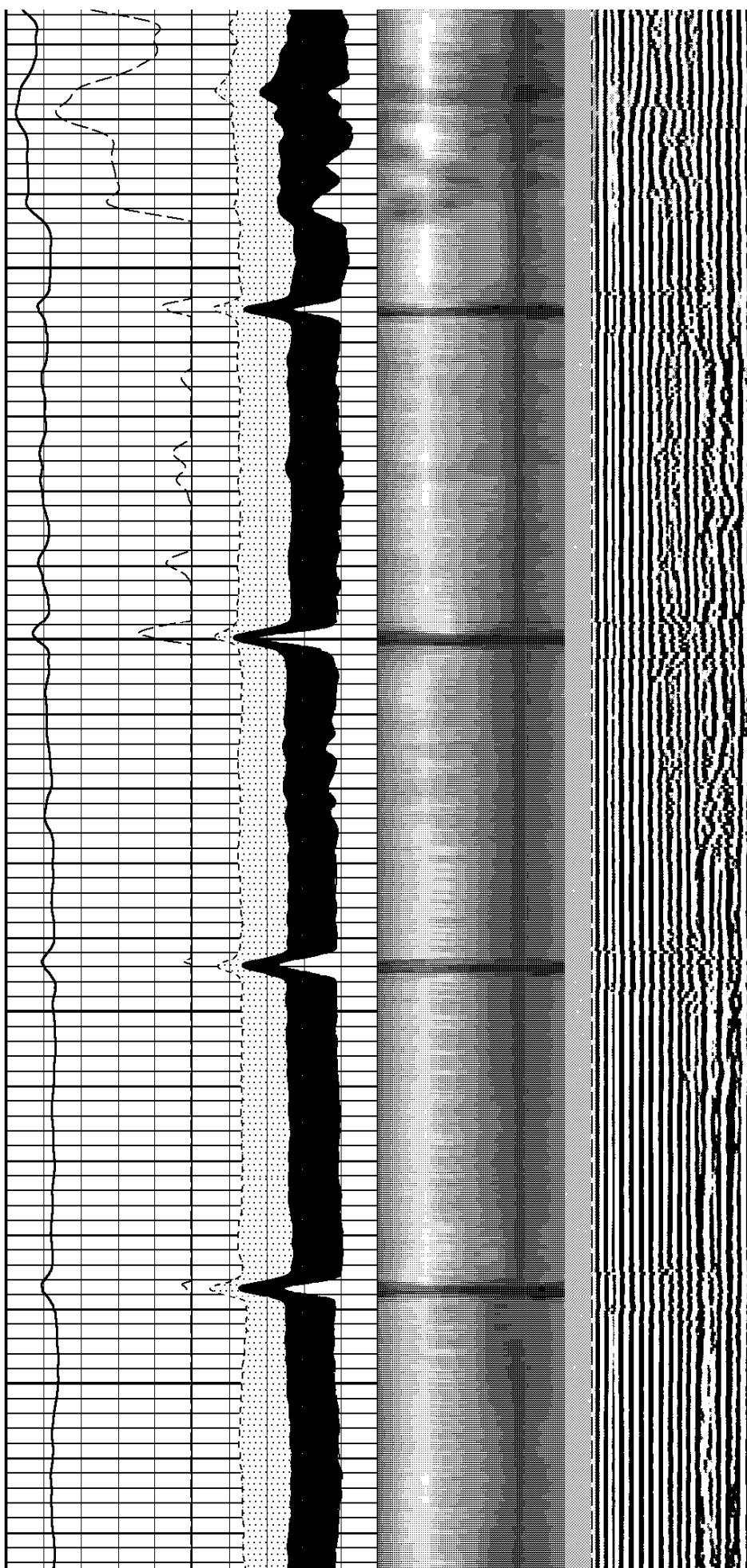
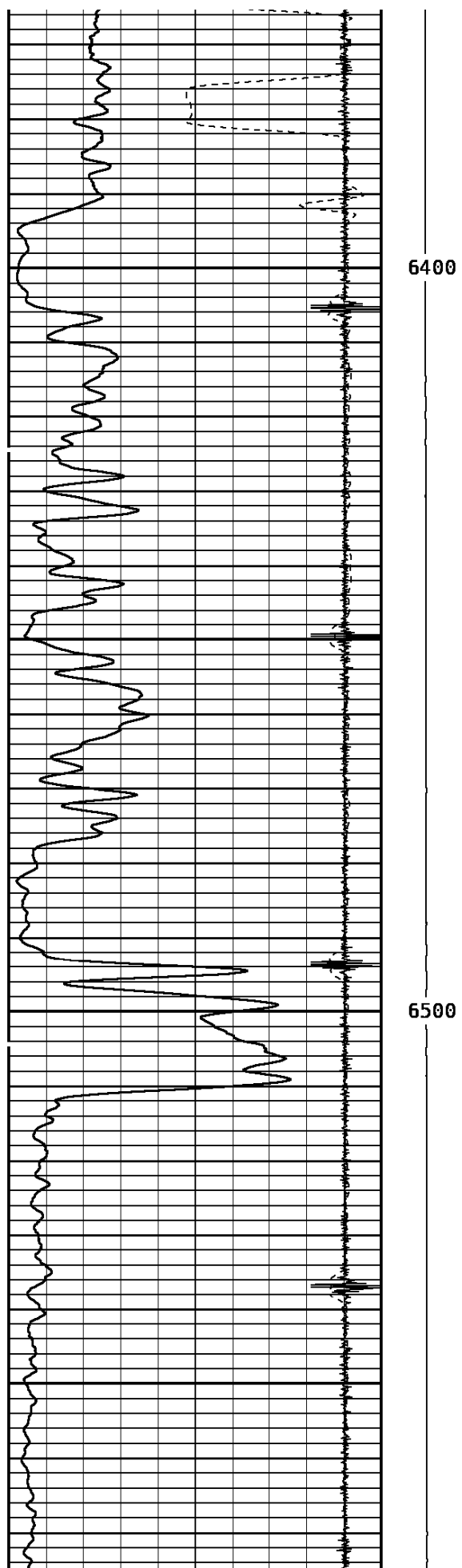


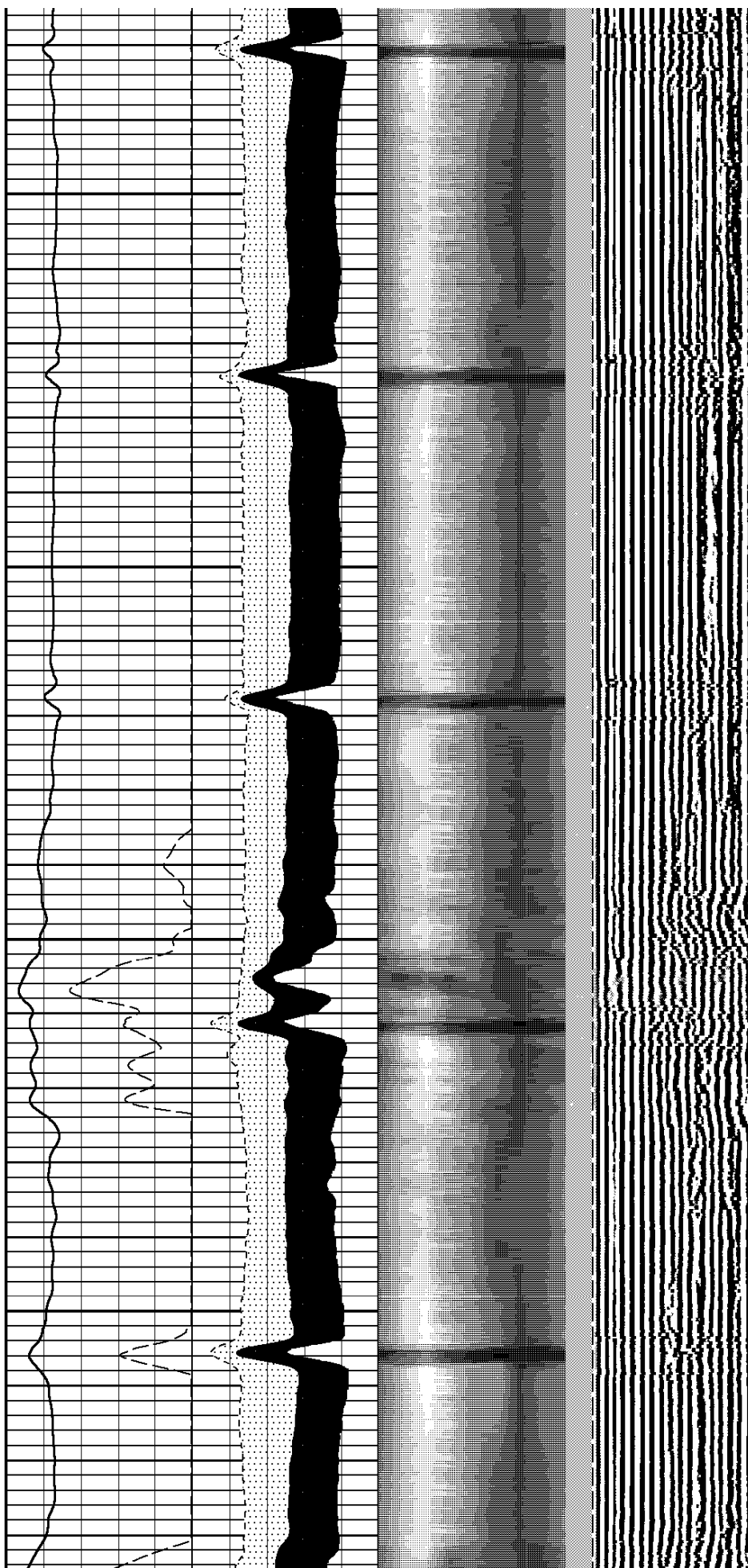
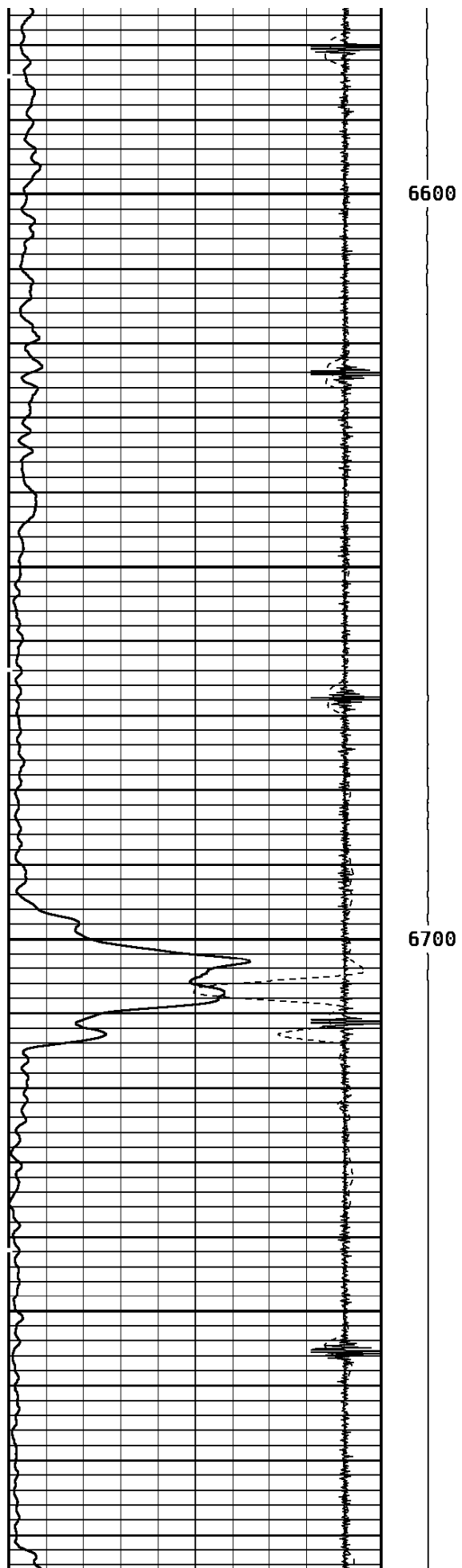


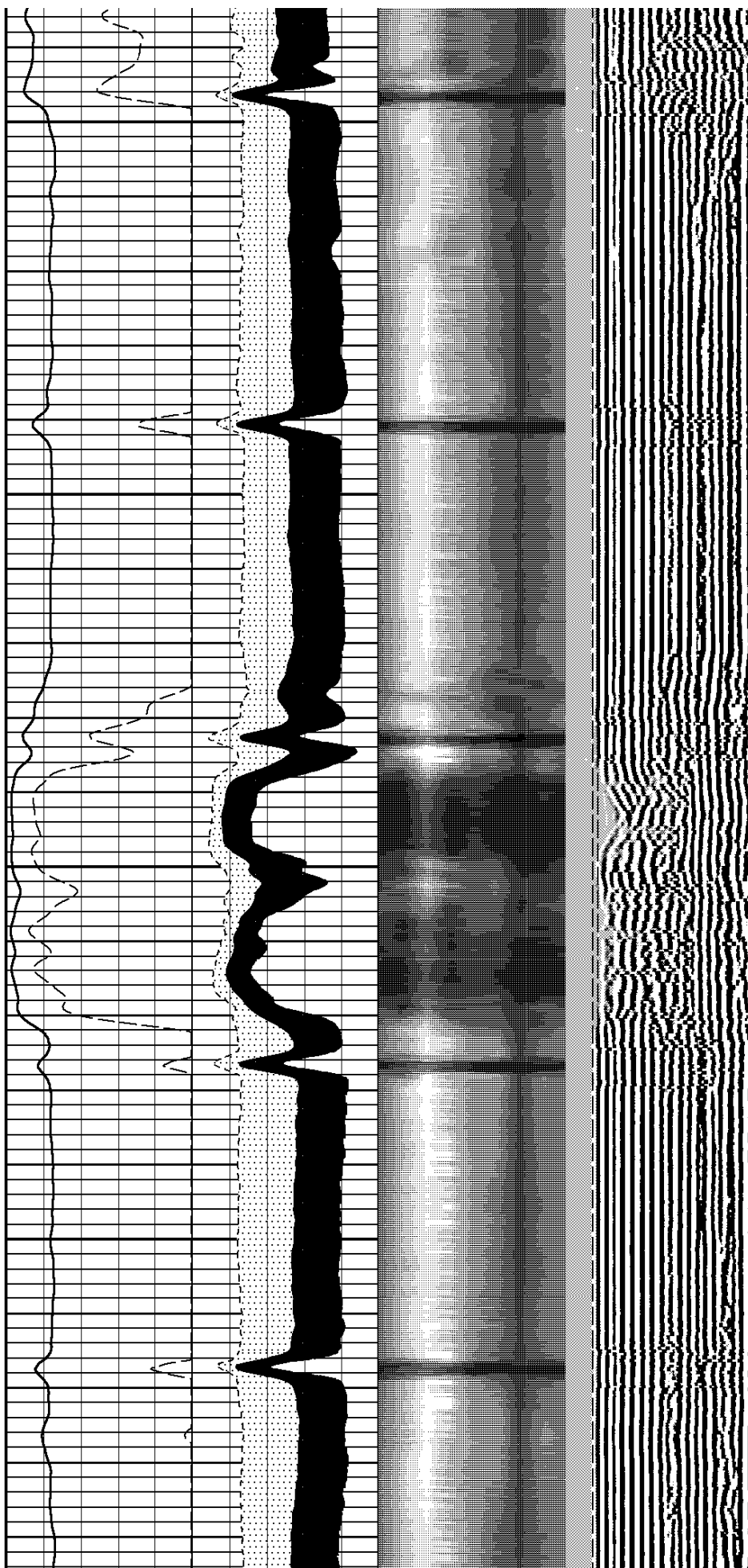
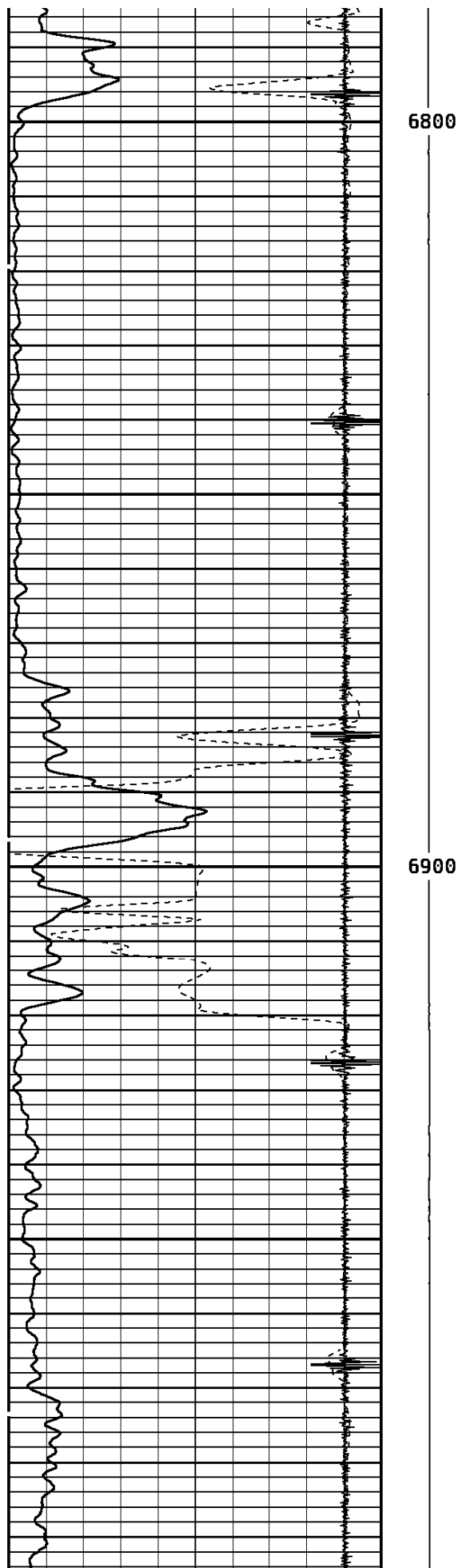


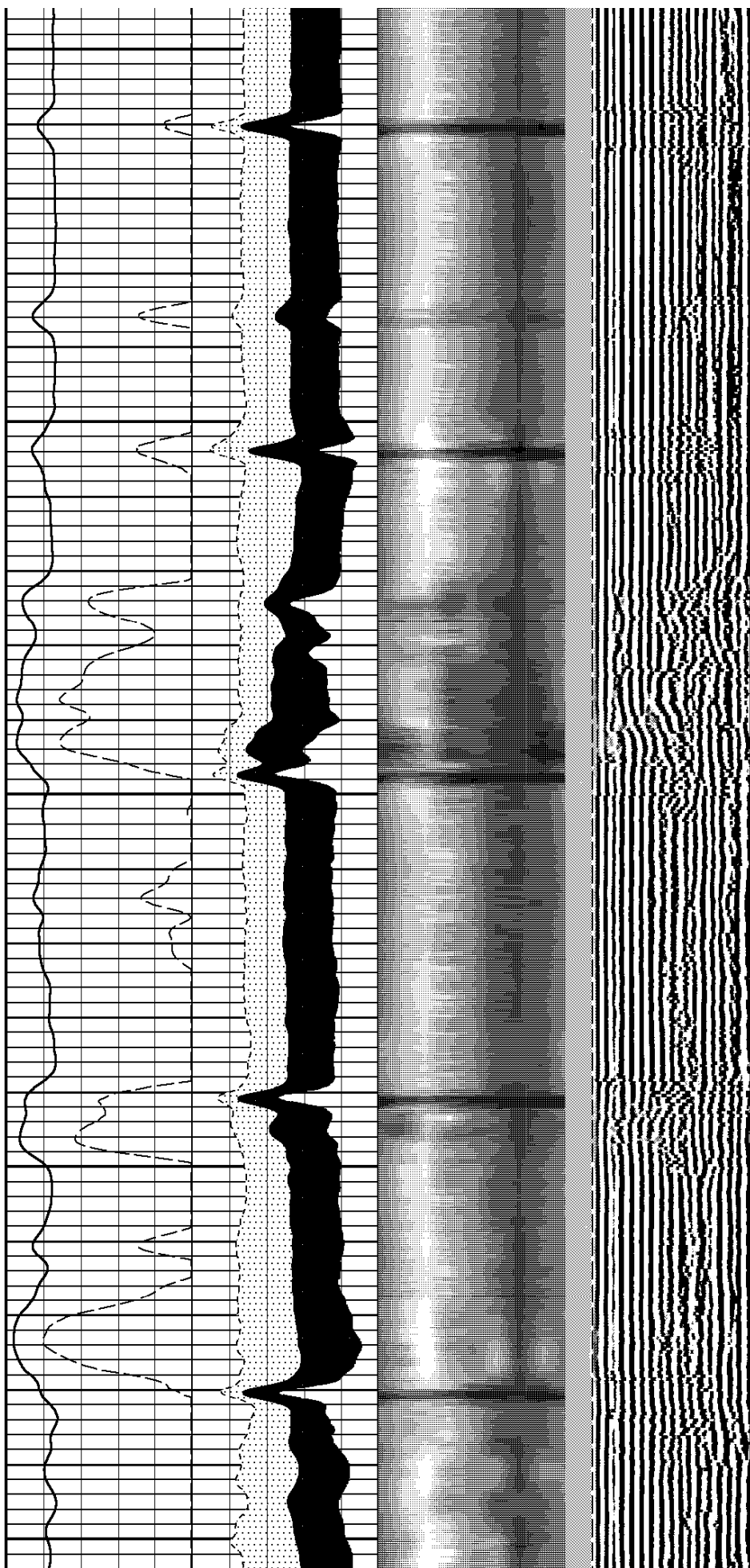
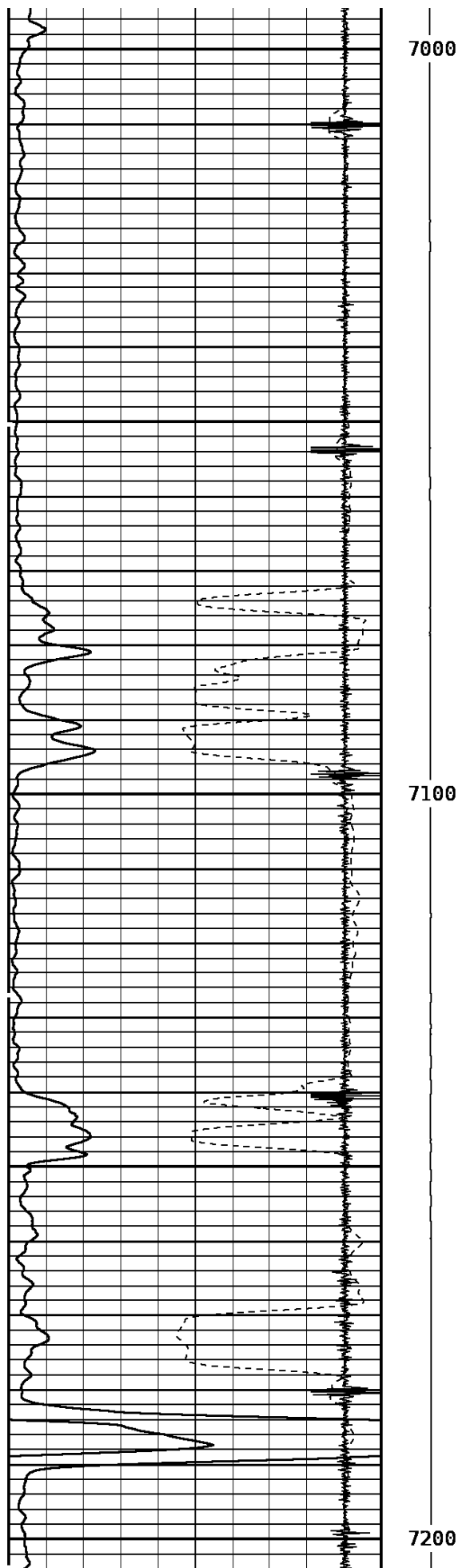


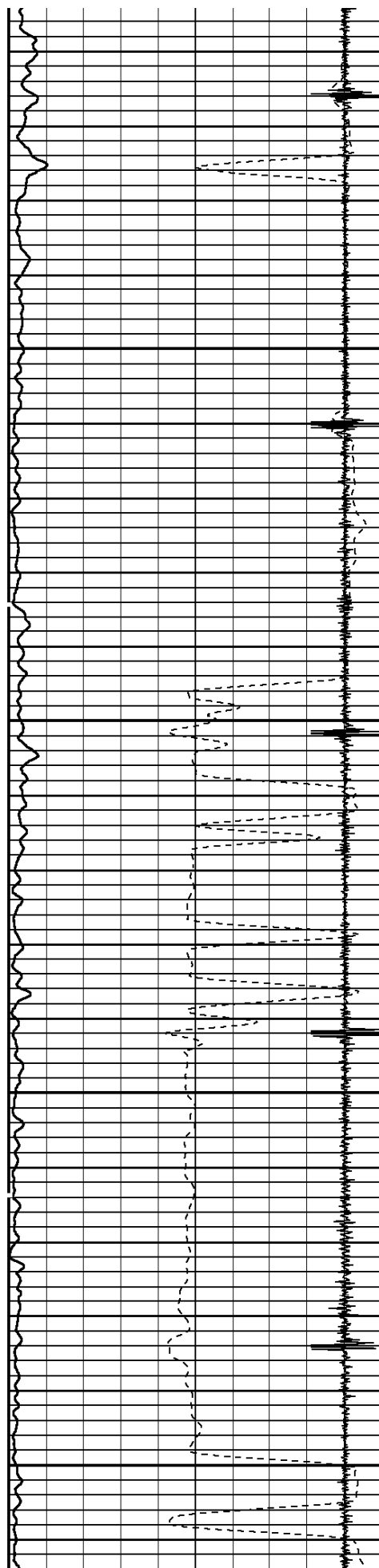






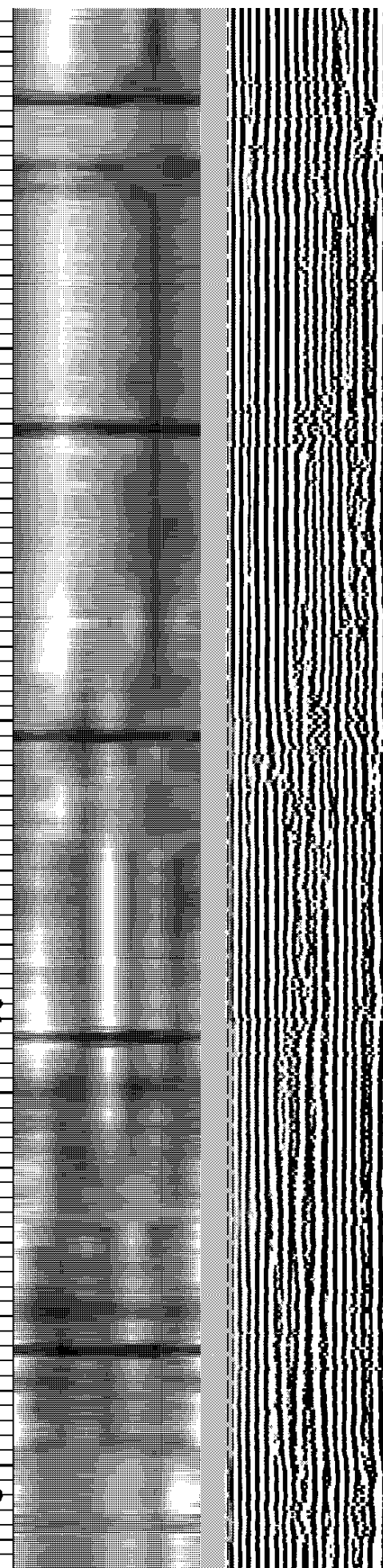
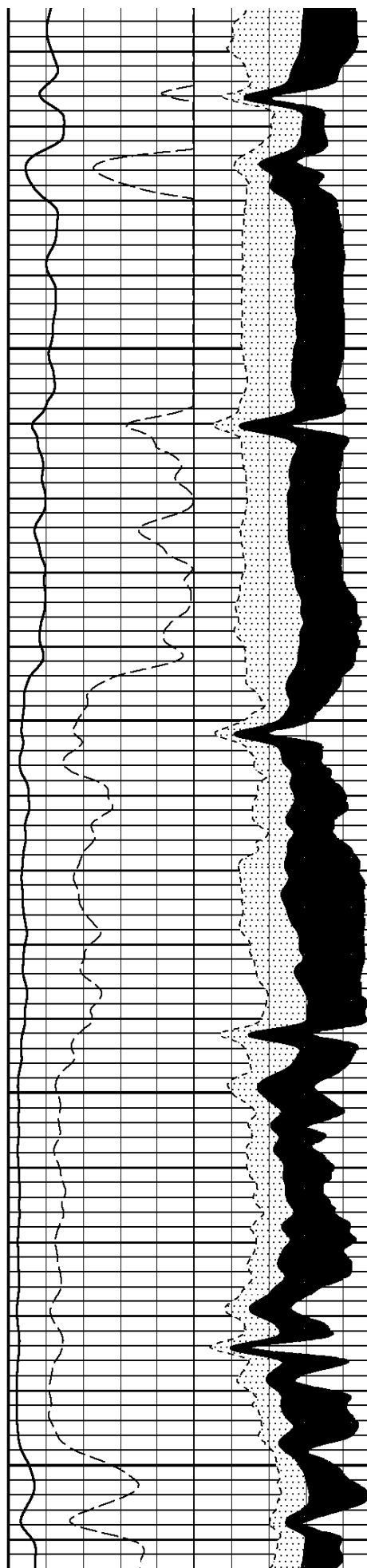


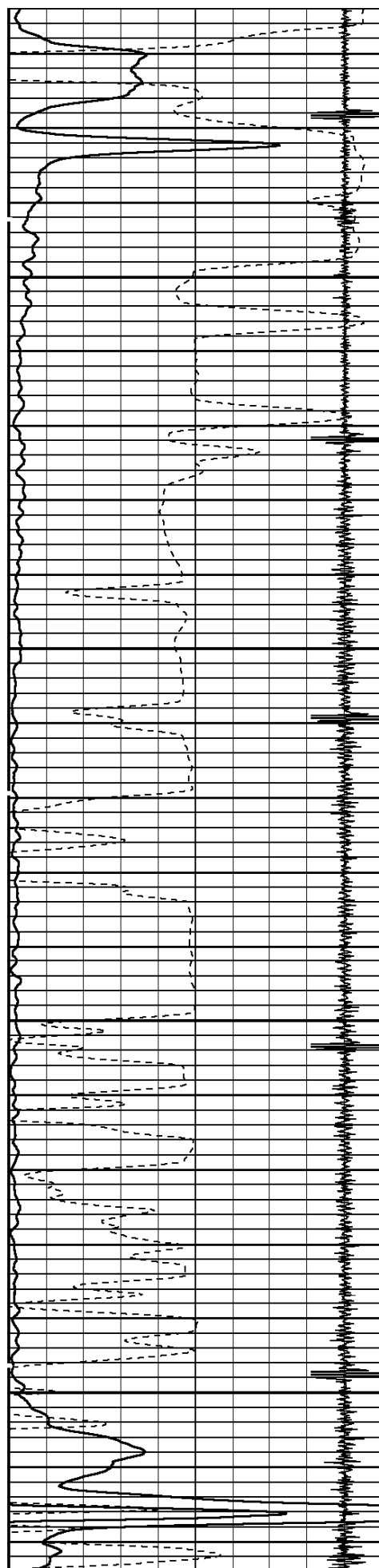




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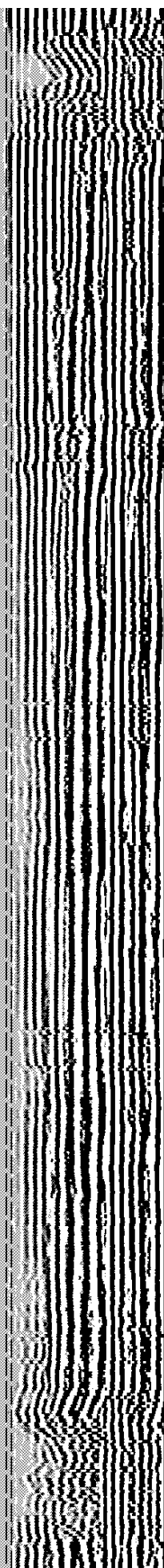
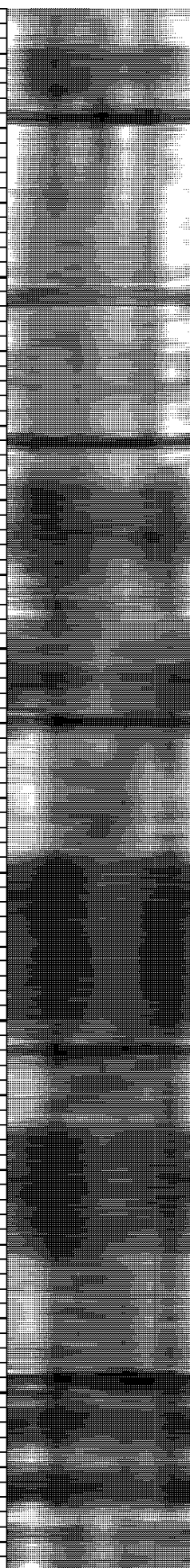
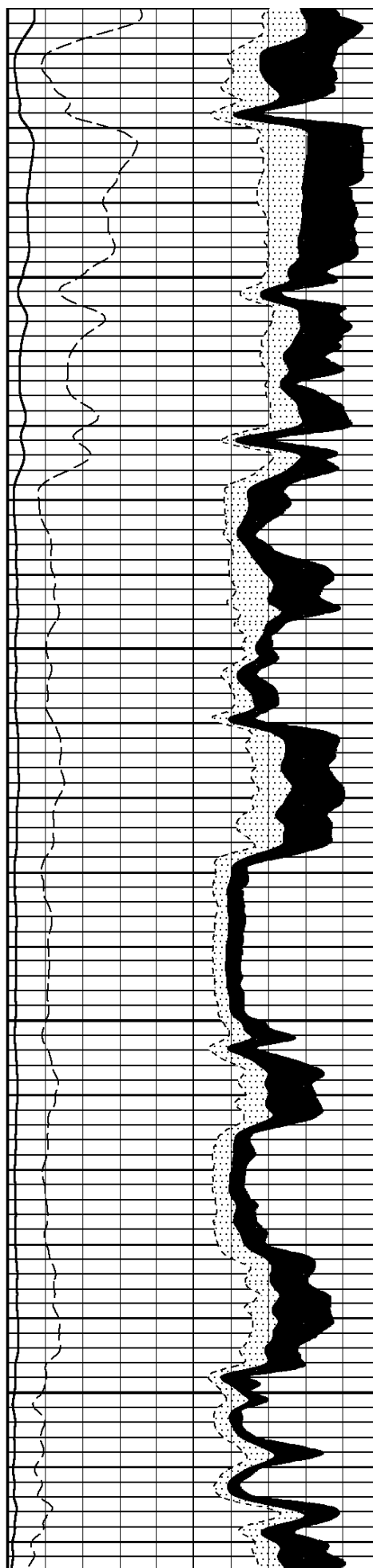
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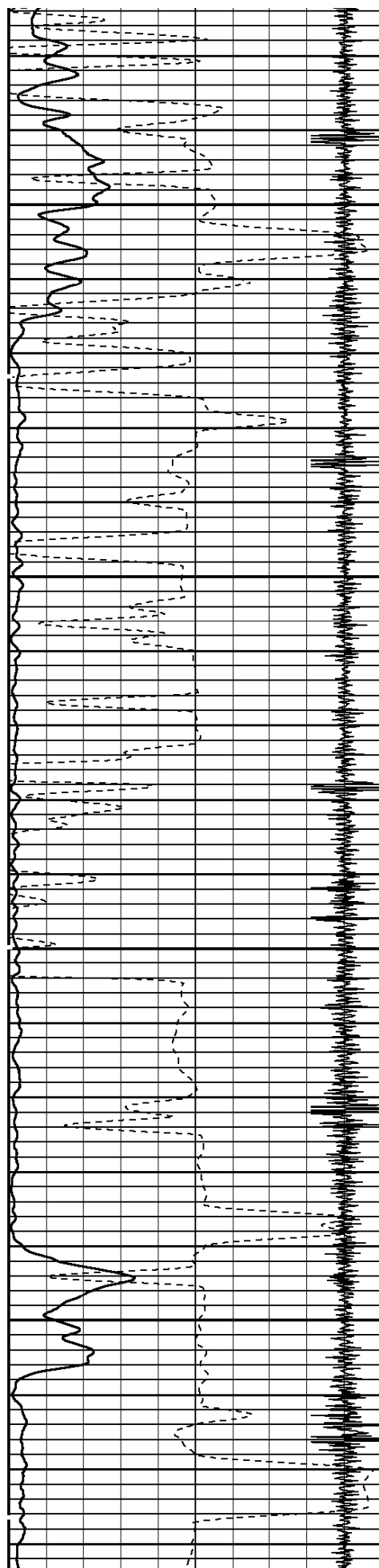




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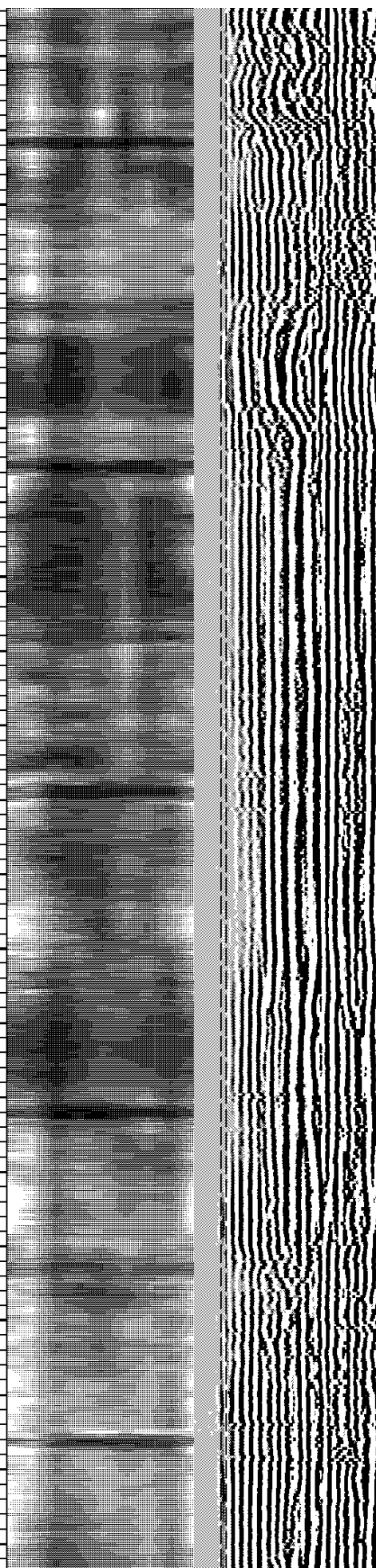
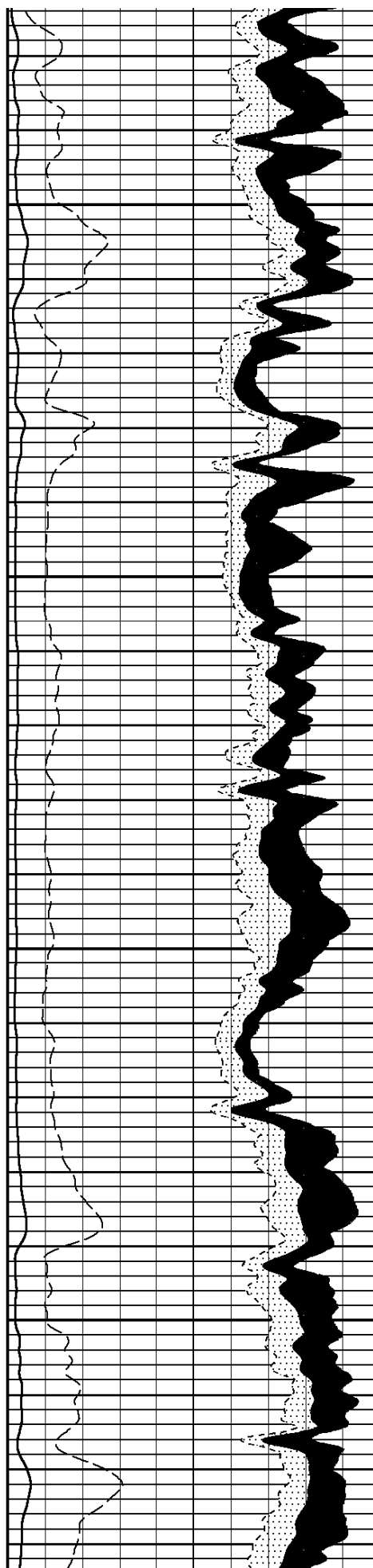
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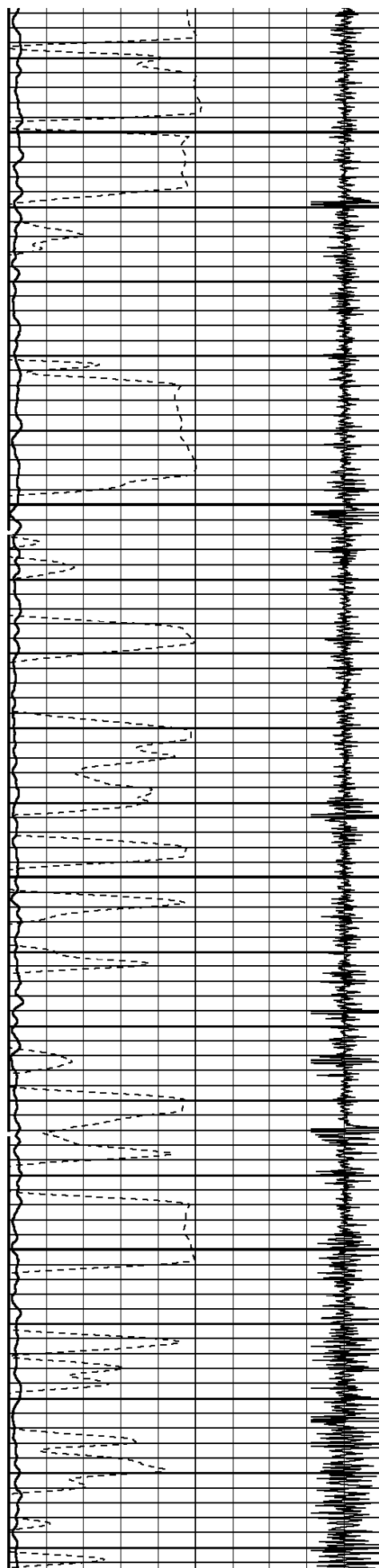




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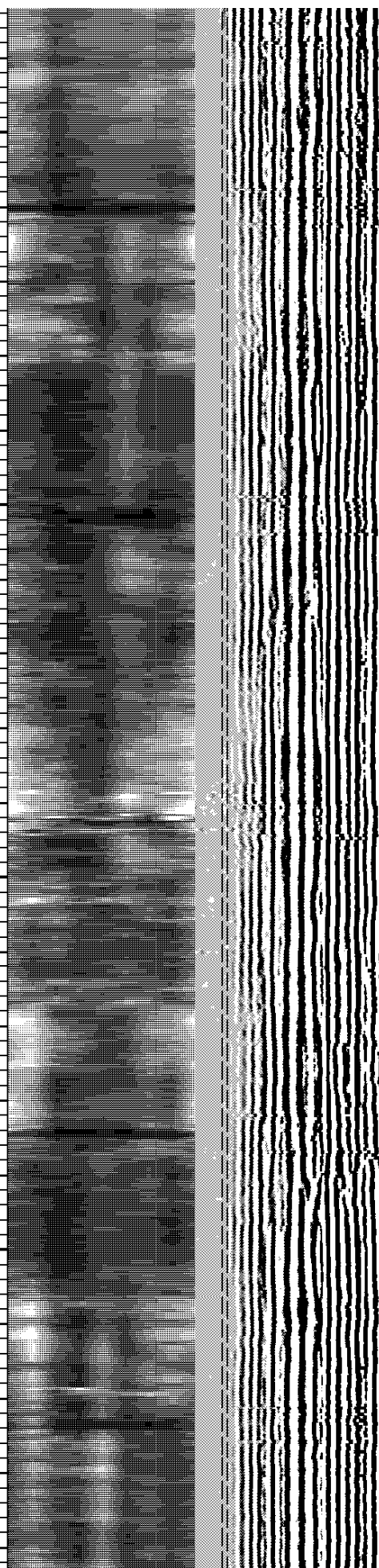
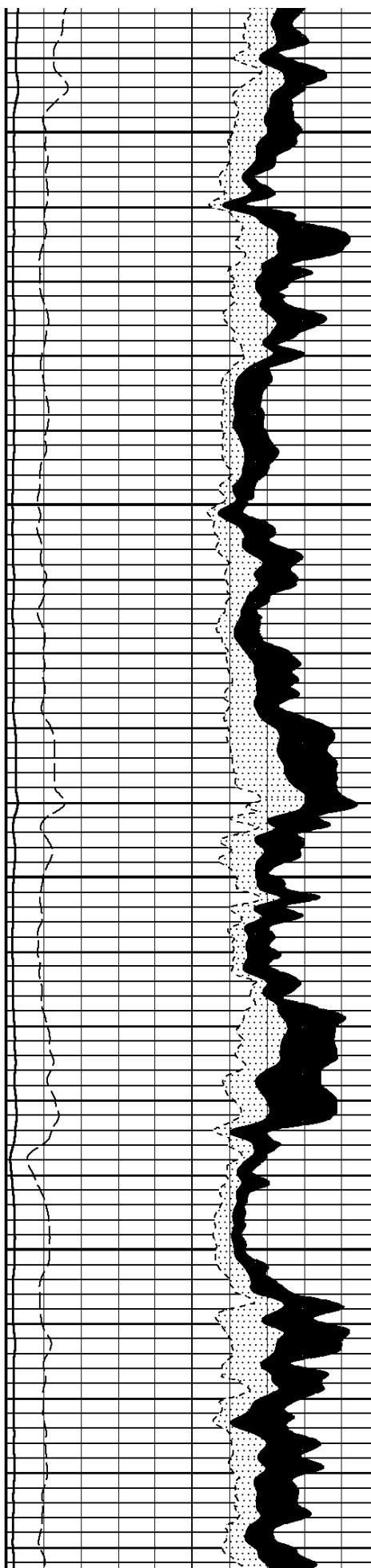
7800





7900

8000



TRAVEL TIME 3FT			Tension	AMPLITUDE 3FT		MIN ENERGY		VARIABLE ENERGY	VARIABLE DENSITY						
350	Microseconds	250		0	3000	0	mv		100	0	mv	80	200	us	1200
Gamma Ray				AMPLITUDE 3FT		AVG ENERGY			FREE PIPE GATE						
0	API	200		0	mv	20	0		mv	100	200	us	1200		
Collar Locator					MAX ENERGY		FREE PIPE GATE								
1000	Millivolts	100			0	mv	100	200	us	1200					

-1800	MILLIVOLTS	190	0	mv	100	200	us	1200
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START DEPTH: **8217.8** DIRECTION: **UP** DATE: **06/18/2014** TIME: **07:11** MODE: **ORIGINAL**
 RECOMPUTED DATE: **06/18/2014** TIME: **09:10**

90216546 MAIN

MAIN PASS

DEPTH SCALE: **5":100'**

LOGGED VERSION: **2012.07.18.162"**

DEPTH SCALE: **5":100'**

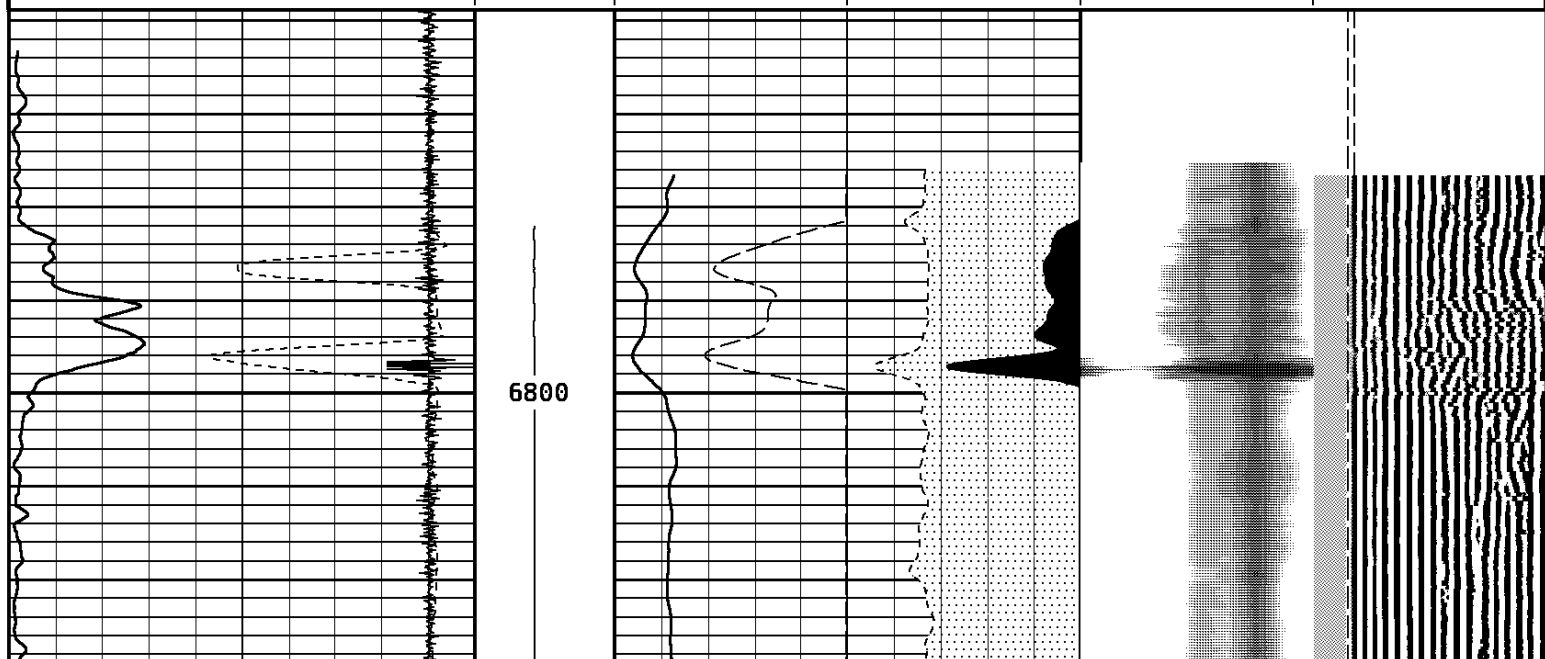
PROCESSED VERSION: **2012.07.18.162"**

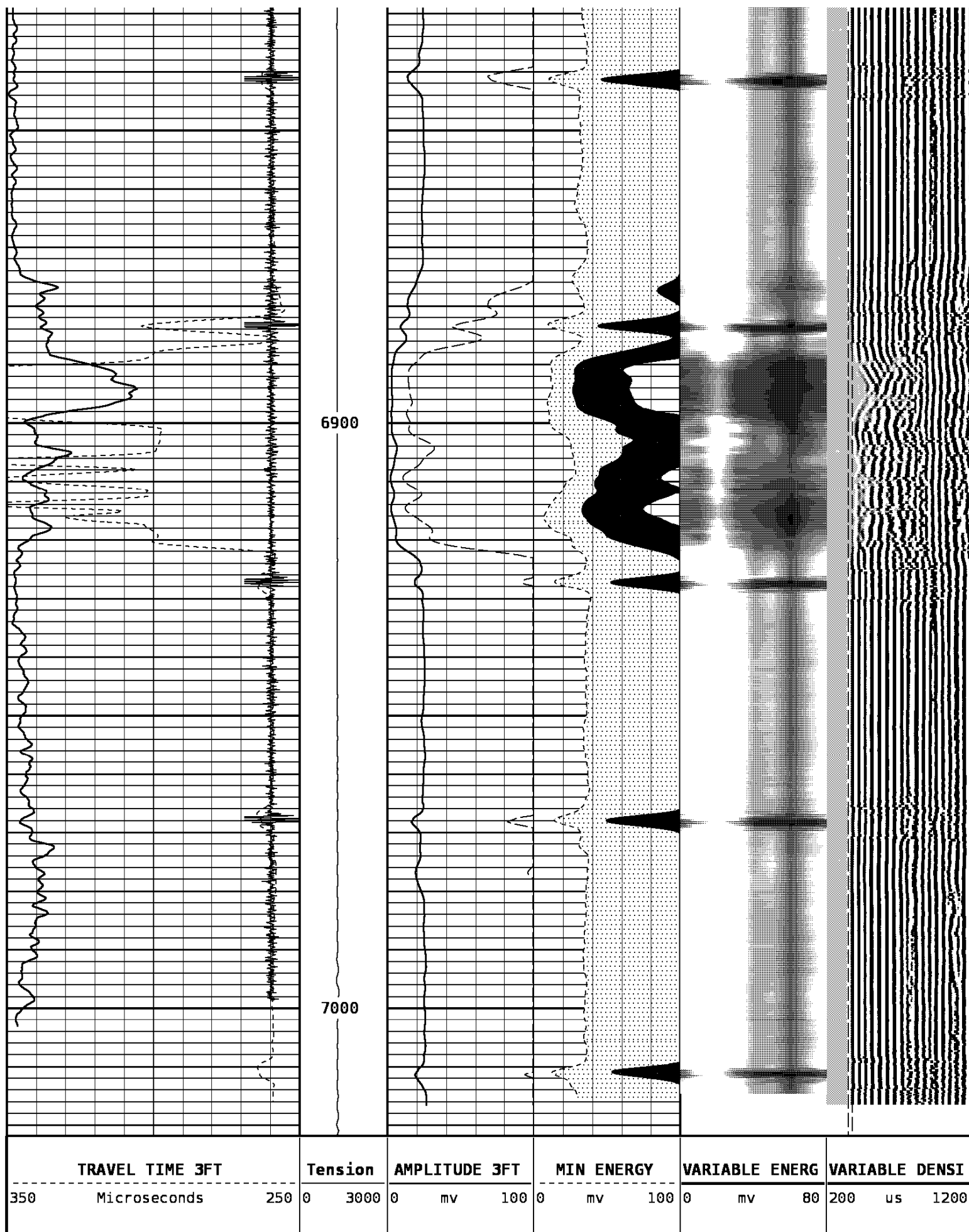
REPEAT PASS

90216546 REPEAT

FINISH DEPTH: **6782.2** Feet DIRECTION: **UP** DATE: **06/18/2014** TIME: **07:04** MODE: **ORIGINAL**

Collar Locator			MAX ENERGY			FREE PIPE GATE		
-1800	Millivolts	190	0	mv	100	200	us	1200
Gamma Ray			AMPLITUDE 3FT			AVG ENERGY		
0	API	200	0	mv	20	0	mv	100
TRAVEL TIME 3FT			Tension			MIN ENERGY		
350	Microseconds	250	0	3000	0	mv	100	0
						VARIABLE ENERGY		
						VARIABLE DENSI		
						0	mv	80
						200	us	1200





Gamma Ray			AMPLITUDE 3FT			AVG ENERGY			FREE PIPE GATE		
0	API	200	0	mv	20	0	mv	100	200	us	1200
Collar Locator						MAX ENERGY			FREE PIPE GATE		
-1800	Millivolts	190				0	mv	100	200	us	1200

START DEPTH: **7022.0** DIRECTION: **UP** DATE: **06/18/2014** TIME: **07:01** MODE: **ORIGINAL**

90216546 REPEAT

REPEAT PASS

DEPTH SCALE: **5":100'**LOGGED VERSION: **2012.07.18.162"****1 7/16 Adapter Head**

Weight 2.2 LB.
Length 2.54
Max. Diameter 1.44 IN.

Total Stack Weight 223.0 LBS. in air
Total Stack Length 27.83 FT.

Slim Hole Centralizer

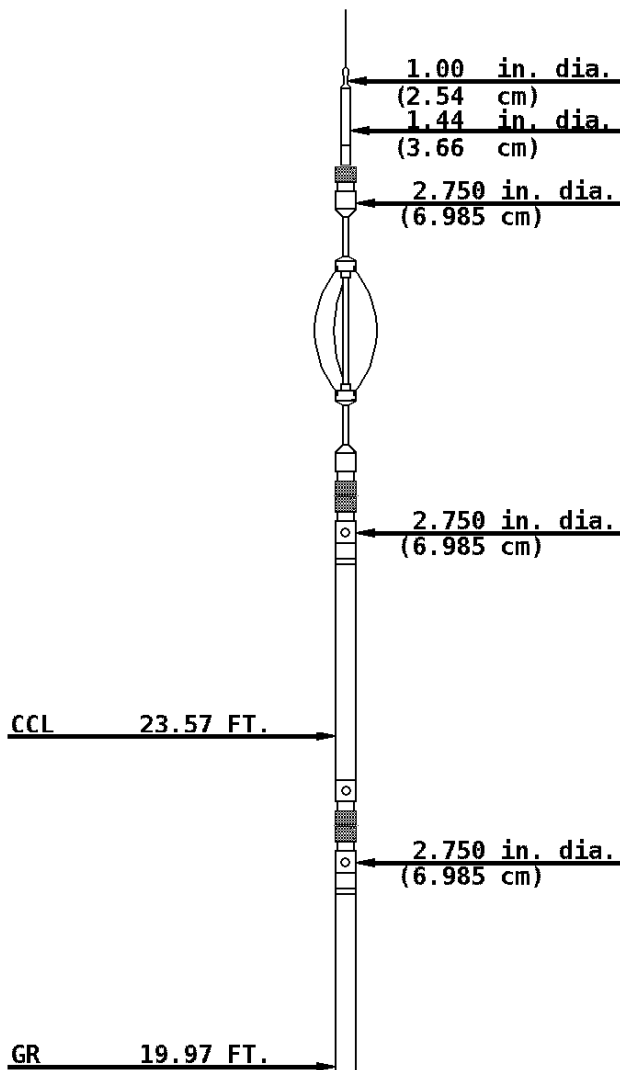
Weight 15 lbs
Length 2.49 FT.
Max. Diameter 2.750 IN.

Collar Locator

Weight 39.8 LBS.
Length 3.40 FT.
Max. Diameter 2.75 IN.

Slim Hole Gamma Ray

Weight 39.8 LBS.
Length 4.71 FT
Max. Diameter 2.750 IN.



Slim Hole Centralizer

Weight 22 LBS.
Length 3.08 FT.
Max. Diameter 2.750 IN.

Sector Bond

Weight 89.2 LBS.
Length 10.32 FT.
Max. Diameter 2.750 IN.

Slim Hole Centralizer

Weight 15.0 LBS.
Length 2.82 FT.
Max. Diameter 2.750 IN.

SBT/CBL Tx 8.75 FT.

SBT Rx 7.77 FT.

3' Rx 7.28 FT.

5' Rx 6.28 FT.

Tool Zero

2.750 in. dia.
(6.985 cm)

2.750 in. dia.
(6.985 cm)

2.750 in. dia.
(6.985 cm)

COMPANY FIDELITY EXPLORATION & PRODUCTION CO.

WELL CCU ST 16-2-25-18



FIELD CANE CREEK

COUNTY GRAND STATE UTAH





GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 28, 2016

CERTIFIED MAIL NO. 7014 2870 0001 4232 4856

Ms. Renee Kendrick
Fidelity E&P Company
1801 California St. Ste 2500
Denver, CO 80202

43 019 50046
Cane Creek 16-2-25-18
16 255 18E

Subject: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases

Dear Ms. Kendrick:

As of January 2016, Fidelity E&P Company has two (2) State Lease Wells (see attachment A) that are currently in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status.

Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Please note that the Divisions preferred method for showing well integrity is by MIT.



Page 2
Fidelity E&P Company
January 28, 2016

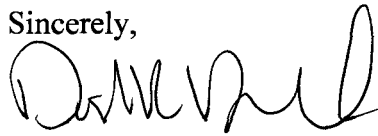
Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

All Submittals should be sent via ePermit

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet
Petroleum Engineer

DKD/DD/js

cc: Compliance File
Well File
LaVonne Garrison, SITLA

N:\O&G Reviewed Docs\ChronFile\PetroleumEngineer\SITA

ATTACHMENT A

	Well Name	API	LEASE	Years Inactive
1	Cane Creek 36-1-25-18	43-019-50038	ML-52094	1 year 6 months
2	Cane Creek Unit 16-2-25-18	43-019-50046	ML-44333	1 year 4 months

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML44333
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: CANE CREEK
2. NAME OF OPERATOR: FIDELITY E&P COMPANY		8. WELL NAME and NUMBER: CANE CREEK UNIT 16-2-25-18
3. ADDRESS OF OPERATOR: 1801 California St. Ste 2500 , Denver, CO, 80202		9. API NUMBER: 43019500460000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0885 FNL 0708 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 25.0S Range: 18.0E Meridian: S		9. FIELD and POOL or WILDCAT: CANE CREEK
		COUNTY: GRAND
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/11/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input checked="" type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Fidelity respectfully requests a 24 month SI extension status for the referenced well. Please refer to the attached information in support of this request.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: March 30, 2016

By: 

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Mike Keller	PHONE NUMBER 720 956-5724	TITLE Project Specialist
SIGNATURE N/A		DATE 3/8/2016



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43019500460000

Extension valid through March 1, 2017. If an extension beyond that date is desired, a request should be submitted at that time with the detail required by R649-3-36 and a copy of the monthly tubing and casing pressure readings. If pressure is found on the intermediate/surface casing annulus or on the bradenhead, contact the Division immediately, remedial action will likely be necessary.



March 7, 2016

State of Utah- Department of Natural Resources
Division of Oil, Gas and Mining
Attn: Dustin Doucet- Petroleum Engineer
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: Fidelity Response to State Lease Well, Shut-in Extension Justification

Mr. Doucet:

Fidelity Exploration & Production Co. (Fidelity) appreciates this opportunity to provide appropriate supporting information in response to the Division of Oil, Gas and Mining (Division) certified letter dated January 28, 2016. The Division's letter state that two of Fidelity's State Lease wells currently exceed the time restrictions for extended shut-in or temporarily abandoned (SI/TA) status. The Cane Creek 36-1-25-18 and Cane Creek Unit 16-2-25-18 are wells located on Utah state lands targeting State of Utah mineral leases. Both wells are currently non-producing horizontal completions, drilled and completed in mid-2014. The newer completions have never actively produced, have been shut-in appropriately and have significant evidence of material integrity and the adequate protection of Underground Sources of Drinking Water (USDW).

We apologize for the oversight. Supporting integrity data is provided within this attachment to the Sundry Notice form and we appreciate your consideration to extend the shut-in status for this well. Feel free to contact me directly if you have any questions or need additional information.

Best regards,

A handwritten signature in black ink, appearing to read "Michael J. Keller", written over a light blue horizontal line.

Michael J. Keller, P.G.
Environmental, Health and Safety Manager

Cc:

Lavonne Garrison- Utah Trust Lands Division- Assistant Director Oil and Gas




CCU 16-2-25-18 Integrity Justification

The Cane Creek 16-2-25-18 is a non-producing horizontal well drilled by Fidelity Exploration and Production Co. in May/June 2014. Surface casing of 13-3/8" diameter was set at 1,201 feet and cemented to surface. The well was then drilled to 4,920 feet where 9-5/8" intermediate casing was set and cemented with 275 sacks. A top job was performed with 131 sacks to bring cement to surface. A cement bond log was run (with 0 psi applied pressure) indicating good bond from 1700 feet to the casing shoe and top of cement at surface. An 8 1/2" pilot hole was drilled to 8,050 feet and plugged back to 6,700 feet with cement after running open hole logs. Drilling then resumed to 7,270 feet where the well was kicked off horizontally and directionally drilled in the Cane Creek formation to a measured depth of 11,365 feet (7,858 feet TVD). 7" casing was run to TD and cemented in place. A cement bond log subsequently indicated the top of cement at 4,700 feet. Perforating guns were run on tubing and fired in September 2014, but the well never produced and has remained shut in since that time.

Fidelity respectfully requests an extension of shut in status for 24 months to evaluate the future productive potential of this well through, for example, stimulation or sidetracking to a new bottom hole location. We believe mechanical integrity of the wellbore for protection of ground water is demonstrated by the following:

- Both surface and intermediate casing are cemented to surface (0-1200 feet).
- Regional Underground Sources of Drinking Water (USDWs) have not been identified in the vicinity of the well. Perched drinking water sources (where available) are typically less than 500 feet below ground surface, generally well within the dual surface casing/intermediate casing cement strings.
- The well is less than two years old and all equipment is in good condition.
- The well has 2-7/8" production tubing installed with a packer set at 7,282 feet.
- The tubing/casing annulus was successfully tested at 2000 psi during completion.
- The tubing casing/annulus is filled with packer fluid (fresh water with corrosion inhibitor).
- Pressure measurements on February 17, 2016 indicated tubing pressure of 1,040 psi and 1,400 psi on the tubing/casing annulus. The annulus was bled down to zero psi but one week later had built back up to 500 psi, while the tubing had decreased to 950 psi, indicating a possible tubing leak. However, surface/intermediate casing annulus pressure was checked on March 2, 2016 and indicated zero psi.

In order to ensure that casing integrity is maintained, tubing, tubing/casing annulus and surface/intermediate casing annulus pressures will be monitored on a monthly basis and maintained at an acceptable level. Additional measures will be taken as necessary to correct any adverse situation indicated by these periodic measurements.



FIDELITY
Exploration & Production Company
An MDU Resources Group company

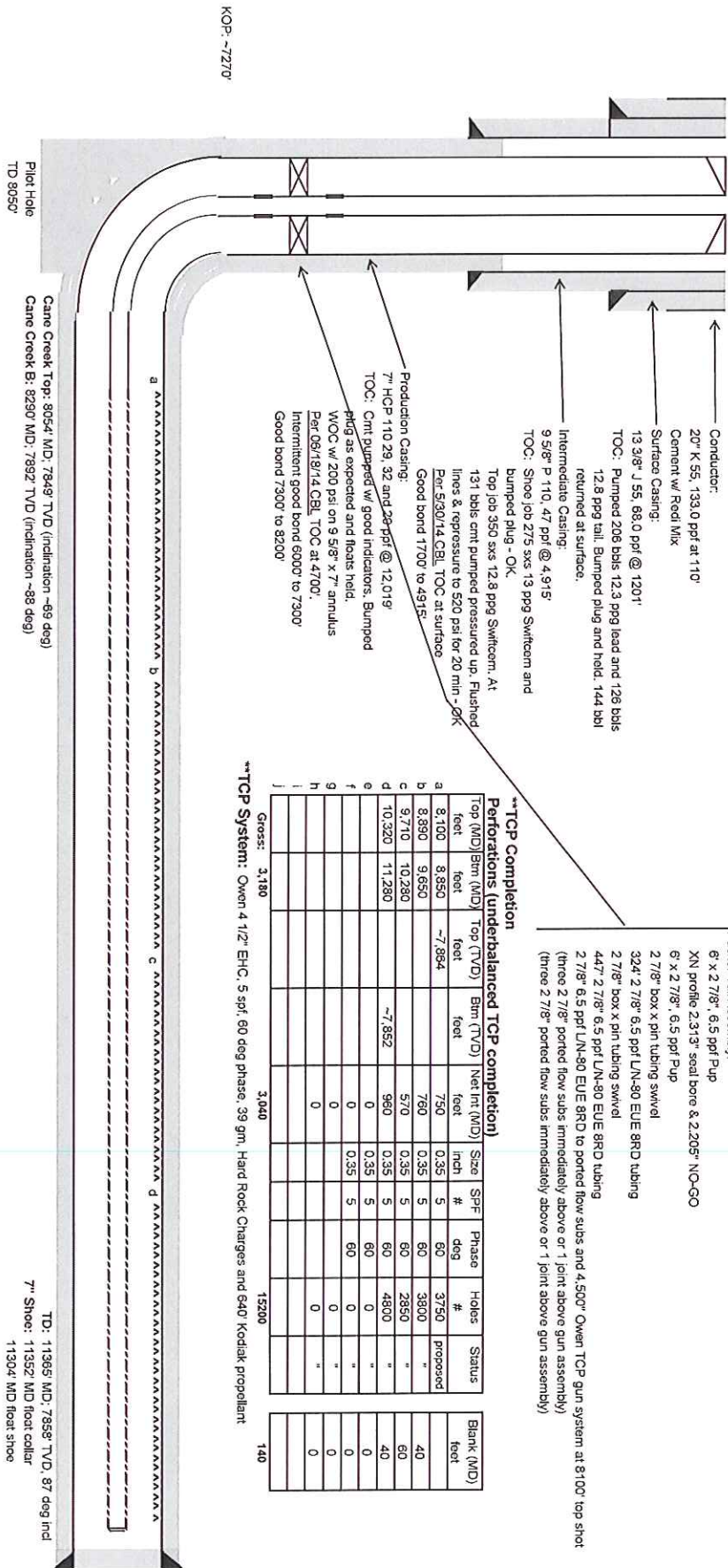
WELL NAME: CCU 16-2-25-18
FIELD: Cane Creek
LOCATION: Grand County, UT
AP#: 43-019-50046
AFE NUMBER: 130185
SPUD DATE: 09/13/2014
REVISION DATE: 03/08/2016

SECTION, TOWNSHIP, RANGE: NENE 16 25S 18E
SHL: 708' FNL, 896' FNL
SURFACE LAT: 38 deg 38' 5.56" NAD 1983
SURFACE LONG: 109 deg 55' 57.53" NAD 1983
KB: 5297' (23 KB)
GL: 5274
UPDATED BY: MLMI

BHL: 860' FNL, 848' FNL, Vent Section 3729'

PIPE	Size	Grade	Weight	CONN	OD (")	ID (")	Drift Dia (")	Burst	Collapse	TOC (')	TOP (')	BTM (')
Conductor	20"	K-55	133.0		18.73	12.415	12.259	3,450	1,950	Surface	28.8	1,226
Surf Csg	13 3/8"	J-55	68.0	BTC	13.373	12.415	12.259	9,440	5,310	Surface	28.1	4,809
Inter Csg	9 5/8"	HCP 110	47.0	BTC	9.625	8.681	8.525	12,220	8,530		4,781	8,224
Prod Csg	7"	HCP 110	29.0	BTC	7.000	6.184	6.059	12,460	10,760		4,781	8,224
Prod Csg	7"	HCP 110	32.0	BTC	7.000	6.094	5.969	12,220	8,530		8,224	11,352
Prod Csg	7"	HCP 110	29.0	BTC	7.000	6.184	6.059					

Current Status: Drilling rig release 06/22/2014, 06/17/14 Drilling ran 7" bit and scraper to 11,303' and circ bit up clean.
06/18/14 Drilling ran CBL 8200' to surface (Weatherford CBL), 06/18/14 ran 7" bit and scraper to 11118' and hung off on packer at 56.85'.
Completion RU 09/02/14; Fired guns 09/18/14; Turn well over to production est 09/xx/14



****TCP Completion**

Perforations (underbalanced TCP completion)

Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)	Net Int (MD)	Size	SPF	Phase	Holes	Status	Blank (MD)
a	8,100	8,850			7/8"	5	60	3750	proposed	40
b	8,890	9,650			7/8"	5	60	3800	"	60
c	9,710	10,280			7/8"	5	60	2850	"	40
d	10,320	11,280			7/8"	5	60	4800	"	0
e					7/8"	5	60	0	"	0
f					7/8"	5	60	0	"	0
g					7/8"	5	60	0	"	0
h					7/8"	5	60	0	"	0
i					7/8"	5	60	0	"	0
j					7/8"	5	60	0	"	0
Gross:	3,180							15200		140

**TCP System: Owen 4 1/2" EHC, 5 spf, 60 deg phase, 39 gm, Hard Rock Charges and 640' Kodak propellant

Production Equipment

- Production Tubing:
 - 2 7/8" 6.5 ppi L/N-80 EUE BRD tubing (w/ space out pups 1 jnt below tbg hanger) from surface
 - 2 7/8" side pocket mandrel w/ dummy valve at 5001'
 - 2 7/8" 6.5 ppi L/N-80 EUE BRD tubing
 - X profile 2.313" seal bore at ~ 6682'
 - 1 joint 2 7/8" 6.5 ppi L/N-80 EUE BRD
 - 4 x 2 7/8" ported chemical injection sub w/ 3/8" capillary tubing to surface
 - 6 x 2 7/8" 6.5 ppi Pup
 - L-10 on-off connector skirt w/ internal X profile (2.313" seal bore)
- Production Packer:
 - 2 7/8" x 7" Baker Hornet retrievable at 7282'
- Packer Tail Assembly:
 - 6 x 2 7/8" 6.5 ppi Pup
 - XN profile 2.313" seal bore & 2.205" NO-GO
 - 6 x 2 7/8" 6.5 ppi Pup
 - 2 7/8" box x pin tubing swivel
 - 324' 2 7/8" 6.5 ppi L/N-80 EUE BRD tubing
 - 2 7/8" box x pin tubing swivel
 - 447' 2 7/8" 6.5 ppi L/N-80 EUE BRD tubing
 - 2 7/8" 6.5 ppi L/N-80 EUE BRD to ported flow subs and 4.500' Owen TCP gun system at 8100' top shot (three 2 7/8" ported flow subs immediately above or 1 joint above gun assembly)
 - (three 2 7/8" ported flow subs immediately above or 1 joint above gun assembly)

Effective Date:

3/1/2016

FORMER OPERATOR: Fidelity E&P Company N3155 1801 Californa Street, Suite 2500 Denver, CO 80202	NEW OPERATOR: Wesco Operating, Inc. N4030 PO Box 1650 Casper, WY 82602
CA Number(s):	Unit(s): Cane Creek Threemile

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 4/12/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 4/12/2016
3. New operator Division of Corporations Business Number: 8742016-0143

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 4/12/2016
2. Receipt of Acceptance of Drilling Procedures for APD on: 4/12/2016
3. Reports current for Production/Disposition & Sundries: 4/19/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 4/19/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 4/13/2016
6. Surface Facility(s) included in operator change: Blue Hills Gas Plant
Dead House Lateral Pipeline
Dubinky Booster Station
Long Canyon Facility
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB0000685
2. Indian well(s) covered by Bond Number: N/A
3. State/fee well(s) covered by Bond Number(s): RLB0016443

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 4/21/2016 ✓
2. Entity Number(s) updated in **OGIS** on: 4/21/2016
3. Unit(s) operator number update in **OGIS** on: 4/21/2016
4. Surface Facilities update in **OGIS** on: 4/21/2016
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 4/21/2016
6. Surface Facilities update in **RBDMS** on: 4/21/2016

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

From: Fidelity Exploration Production Company N3155

To: Wesco Operating, Inc. N4030

Effective: 3/1/2016

Well Name	Section	TWN	RNG	API Numner	Entity	Mineral	Surface	Type	Status	Unit
KANE SPRINGS 16-1	16	250S	180E	4301931341	11484	State	State	WD	A	CANE CREEK
CANE CREEK UNIT 2-2-25-18	2	250S	180E	4301950044		State	State	OW	APD	CANE CREEK
Cane Creek Unit 25-1-25-19	25	250S	190E	4301950048		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 6-1-25-19	6	250S	190E	4301950052		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 29-1-25-19	29	250S	190E	4301950053		Federal	Federal	OW	APD	CANE CREEK
Cane Creek 10-1-25-19	10	250S	190E	4301950054		Federal	Federal	OW	APD	
Cane Creek Unit 30-1-25-19	30	250S	190E	4301950055		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 19-2-26-20	19	260S	200E	4301950056		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 14-1-25-19	14	250S	190E	4301950057		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 2-3-25-18	2	250S	180E	4301950058		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 16-3-25-18	16	250S	180E	4301950059		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 19-1-25-19	19	250S	190E	4301950060		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 32-2-25-19	32	250S	190E	4301950061		State	State	OW	APD	CANE CREEK
Cane Creek Unit 17-1-25-19	17	250S	190E	4301950062		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 16-4-25-18	16	250S	180E	4301950063		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 2-4-25-18	2	250S	180E	4301950064		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 5-1-25-18	5	250S	180E	4301950065		Federal	Federal	OW	APD	CANE CREEK
8-2-26-20	8	260S	200E	4301950068		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 19-3-26-20	19	260S	200E	4301950069		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 21-1-25-19	21	250S	190E	4301950070		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 12-2-26-19	12	260S	190E	4301950071		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 26-4-25-19	26	250S	190E	4301950072		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 21-1-25-18	21	250S	180E	4301950073		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 9-1-25-18	9	250S	180E	4301950074		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 7-1-25-19	7	250S	190E	4301950075		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 5-2-25-18	5	250S	180E	4301950076		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 7-1-25-18	7	250S	180E	4301950077		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 13-1-25-18	13	250S	180E	4301950078		Federal	Federal	OW	APD	CANE CREEK
Three Mile Unti 12-3-29-21	12	290S	210E	4303750070		Federal	Federal	OW	APD	THREEMILE
Three Mile Unit 16-2-29-22	16	290S	220E	4303750071		Federal	State	OW	APD	THREEMILE
Cane Creek Unit 7-2-26-20	7	260S	200E	4301950051	19706	Federal	Federal	OW	OPS	CANE CREEK
THREEMILE 16-17	16	290S	220E	4303750003	17984	State	State	OW	OPS	THREEMILE
Three Mile Unit 12-2-29-21	12	290S	210E	4303750069	19646	Federal	Federal	OW	OPS	THREEMILE
KANE SPRINGS FED 27-1	27	250S	190E	4301931310	14505	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 19-1A	19	260S	200E	4301931324	14505	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 10-1	10	250S	180E	4301931331	14509	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 25-19-34-1	34	250S	190E	4301931334	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK 2-1	2	260S	190E	4301931396	14505	State	State	OW	P	CANE CREEK
CANE CREEK UNIT 12-1	12	260S	190E	4301950009	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 7-1	7	260S	200E	4301950010	18923	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT# 26-2	26	250S	190E	4301950011	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT #18-1	18	260S	200E	4301950012	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK U #13-1	13	260S	190E	4301950014	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 26-3	26	250S	190E	4301950019	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 28-2	28	250S	190E	4301950020	18681	Federal	Federal	OW	P	
Cane Creek Unit 17-1	17	260S	200E	4301950028	18980	Federal	Federal	OW	P	CANE CREEK
Cane Creek Unit 36-1	36	250S	190E	4301950030	14505	State	State	OW	P	CANE CREEK
Cane Creek Unit 36-2H	36	250S	190E	4301950033	14505	State	State	OW	P	CANE CREEK
Cane Creek Unit 24-2H	24	260S	190E	4301950034	19342	Federal	Federal	OW	P	CANE CREEK
Cane Creek Unit 36-3H	36	250S	190E	4301950035	19528	State	State	OW	P	CANE CREEK
CANE CREEK UNIT 2-1-25-18	2	250S	180E	4301950036	19343	Federal	State	OW	P	CANE CREEK
Cane Creek Unit 32-1-25-19	32	250S	190E	4301950037	19396	State	State	OW	P	
Cane Creek Unit 28-3	28	250S	190E	4301950045	19767	Federal	Federal	OW	P	CANE CREEK
Cane Creek 32-1-25-20	32	250S	200E	4301950049	19588	State	State	OW	P	
HATCH POINT 1	14	290S	210E	4303731658	11356	Federal	Federal	OW	P	
THREEMILE 43-18H	18	290S	220E	4303731857	17276	Federal	Federal	OW	P	
LONG CANYON 1	9	260S	200E	4301915925	674	Federal	Federal	OW	S	
CANE CREEK 1-1	1	260S	190E	4301931446	14505	Federal	Federal	OW	S	CANE CREEK

From: Fidelity Exploration Production Company N3155

To: Wesco Operating, Inc. N4030

Effective: 3/1/2016

CANE CREEK 24-1	24	260S	190E	4301931447	14505	Federal	Federal	OW	S	CANE CREEK
CANE CREEK 8-1	8	260S	200E	4301931449	16464	Federal	Federal	OW	S	CANE CREEK
Cane Creek Unit 18-2	18	260S	200E	4301950027	14505	Federal	Federal	OW	S	CANE CREEK
Cane Creek Unit 17-2	17	260S	200E	4301950032	14505	Federal	Federal	OW	S	CANE CREEK
Cane Creek 36-1-25-18	36	250S	180E	4301950038	19440	State	State	OW	S	
CHEVRON FED 1	24	290S	230E	4303730005	975	Federal	Federal	OW	S	
Threemile 12-7	12	290S	210E	4303750001	17837	Federal	Federal	OW	S	THREEMILE
LA SAL 29-28	29	290S	230E	4303750002	17920	Federal	Federal	OW	S	
CANE CREEK UNIT 16-2-25-18	16	250S	180E	4301950046	19512	State	State	OW	TA	CANE CREEK

WESCO OPERATING, INC.

O I L & G A S O P E R A T I O N S

RECEIVED

APR 12 2016

DIV. OF OIL, GAS & MINING

April 8, 2016

John Rogers
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210 Box 145801
Salt Lake City, Utah 84114

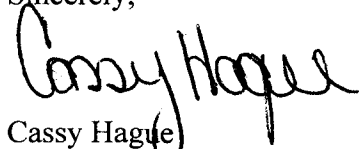
RE: Change of Operator

- A) Wells
 - B) APD'S
 - C) Dubinky Booster Station
 - D) Blue Hills Gas Plant
 - E) Dead Horse Lateral Pipeline
 - F) Authority to Inject
- Sundry Notices

Dear John Rodgers,

Please find enclosed the following documents from Fidelity Exploration & Production Company to Wesco Operating, Inc for your further handing. If you have any further questions please contact us..

Sincerely,



Cassy Hague
307-577-5337

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Exhibit
2. NAME OF OPERATOR: Fidelity Exploration & Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See Attached Exhibit
3. ADDRESS OF OPERATOR: 1801 California St., STE 250 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: See Attached Exhibit
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached exhibit for all wells and details COUNTY: Grand		8. WELL NAME and NUMBER: See Attached Exhibit
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		9. API NUMBER:
STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: See Attached Exhibit

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 3/1/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

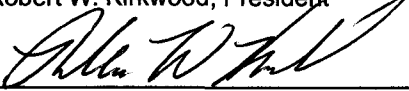
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

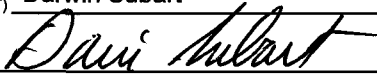
Effective March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the wells listed on the attached exhibit and Wesco Operating, Inc. has been designated as successor Operator.

Wesco Operating, Inc.
P.O. Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President


Signature

NAME (PLEASE PRINT) Darwin Subart	TITLE Chief Financial Officer
SIGNATURE 	DATE 4/4/2016

(This space for State use only) BLM:

APPROVED

APR 21 2016

DIV. OIL GAS & MINING
BY: Rachel Medina

Fidelity Exploration & Production Company Paradox Well & APD List

<u>Entity #</u>	<u>API #</u>	<u>Permitted Well Name</u>	<u>AKA Well Name</u>	<u>Township</u>	<u>Range</u>	<u>Section(s)</u>	<u>County</u>	<u>State</u>	<u>Mineral</u>	<u>Surface</u>	<u>Well Type</u>	<u>Well Status</u>
14506	4301931310	KANE SPRINGS FED 27-1	KANE SPRINGS FED 27-1-25-19	25S	19E	27	GRAND	UT	Federal	Federal	OW	P✓
14505	4301931324	KANE SPRINGS FED 19-1A	KANE SPRINGS FED 19-1A-ST-26-20	26S	20E	19	GRAND	UT	Federal	Federal	OW	P✓
14509	4301931331	KANE SPRINGS FED 10-1	KANE SPRINGS FED 10-1-25-18	25S	18E	10	GRAND	UT	Federal	Federal	OW	P✓
14506	4301931334	KANE SPRINGS FED 25-19-34-1	KANE SPRINGS FED 25-19-34-1	25S	19E	34	GRAND	UT	Federal	Federal	OW	P✓
	4301931341	KANE SPRINGS 16-1-25-18	Disposal Well	25S	18E	16	GRAND	UT	State	State	SWD	P✓
14505	4301931396	CANE CREEK 2-1	CANE CREEK UNIT 2-1-26-19	26S	19E	2	GRAND	UT	State	State	OW	P✓
14505	4301931446	CANE CREEK 1-1	CANE CREEK UNIT 1-1-26-19	26S	19E	1	GRAND	UT	Federal	Federal	OW	P✓
14505	4301950009	CANE CREEK UNIT 12-1	CANE CREEK UNIT 12-1-26-19	26S	19E	12	GRAND	UT	Federal	Federal	OW	P✓
18923	4301950010	CANE CREEK UNIT 7-1	CANE CREEK UNIT 7-1-26-20	26S	20E	7	GRAND	UT	Federal	Federal	OW	P✓
14506	4301950011	CANE CREEK UNIT# 26-2	CANE CREEK UNIT 26-2-25-19	25S	19E	26	GRAND	UT	Federal	Federal	OW	P✓
14505	4301950012	CANE CREEK UNIT #18-1	CANE CREEK UNIT 18-1-26-20	26S	20E	18	GRAND	UT	Federal	Federal	OW	P✓
14505	4301950014	CANE CREEK U #13-1	CANE CREEK UNIT 13-1-26-19	26S	19E	13	GRAND	UT	Federal	Federal	OW	P✓
14506	4301950019	CANE CREEK UNIT 26-3	CANE CREEK UNIT 26-3-25-19	25S	19E	26	GRAND	UT	Federal	Federal	OW	P✓
18681	4301950020	CANE CREEK UNIT 28-2	CANE CREEK UNIT 28-2-25-19	25S	19E	28	GRAND	UT	Federal	Federal	OW	P✓
14505	4301950027	Cane Creek Unit 18-2	CANE CREEK UNIT 18-2-26-20	26S	20E	18	GRAND	UT	Federal	Federal	OW	P✓
18980	4301950028	Cane Creek Unit 17-1	CANE CREEK UNIT 17-1-26-20	26S	20E	17	GRAND	UT	Federal	Federal	OW	P✓
19057	4301950030	Cane Creek Unit 36-1	CANE CREEK UNIT 36-1-25-19	25S	19E	36	GRAND	UT	State	State	OW	P✓
14505	4301950032	Cane Creek Unit 17-2	CANE CREEK UNIT 17-2-26-20	26S	20E	17	GRAND	UT	Federal	Federal	OW	P✓
19527	4301950033	Cane Creek Unit 36-2H	CANE CREEK UNIT 36-2H-25-19	25S	19E	36	GRAND	UT	State	State	OW	P✓
19342	4301950034	Cane Creek Unit 24-2H	CANE CREEK UNIT 24-2-26-19	26S	19E	24	GRAND	UT	Federal	Federal	OW	P✓
19528	4301950035	Cane Creek Unit 36-3H	CANE CREEK UNIT 36-3H-25-19	25S	19E	36	GRAND	UT	State	State	OW	P✓
19396	4301950037	Cane Creek Unit 32-1-25-19	CANE CREEK UNIT 32-1-25-19	25S	19E	32	GRAND	UT	State	State	OW	P✓
19767	4301950045	Cane Creek Unit 28-3	CANE CREEK UNIT 28-3-25-19	26S	19E	28	GRAND	UT	Federal	Federal	OW	P✓
19588	4301950049	Cane Creek 32-1-25-20	CANE CREEK 32-1-25-20	25S	20E	32	GRAND	UT	State	State	OW	P✓
11356	4303731658	HATCH POINT 1	HATCH POINT FEDERAL 1	29S	21E	14	SAN JUAN	UT	Federal	Federal	OW	P✓ 26-P
17276	4303731857	THREEMILE 43-18H	THREEMILE UNIT 43-18H-29-22	29S	22E	18	SAN JUAN	UT	Federal	Federal	OW	P✓
19706	4301950051	Cane Creek Unit 7-2-26-20	CANE CREEK UNIT 7-2-26-20	26S	20E	7	GRAND	UT	Federal	Federal	OW	OPS✓
17984	4303750003	THREEMILE 16-17	THREEMILE UNIT 16-17-29-22	29S	22E	16	SAN JUAN	UT	State	State	OW	OPS✓ 3 OPS
19646	4303750069	Three Mile Unit 12-2-29-21	THREE MILE UNIT 12-2-29-21	29S	21E	12	SAN JUAN	UT	Federal	Federal	OW	OPS✓
19343	4301950036	CANE CREEK UNIT 2-1-25-18	CANE CREEK UNIT 2-1-25-18	25S	18E	2	GRAND	UT	Federal	State	OW	TA✓ 2TA
19512	4301950046	CANE CREEK UNIT 16-2-25-18	CANE CREEK UNIT 16-2-25-18	25S	18E	16	GRAND	UT	State	State	OW	TA✓
674	4301915925	LONG CANYON 1	LONG CANYON 1	26S	20E	9	GRAND	UT	Federal	Federal	OW	S✓
14505	4301931447	CANE CREEK 24-1	CANE CREEK UNIT 24-1-26-19	26S	19E	24	GRAND	UT	Federal	Federal	OW	S✓
16464	4301931449	CANE CREEK 8-1	CANE CREEK UNIT 8-1-26-20	26S	20E	8	GRAND	UT	Federal	Federal	OW	S✓
19440	4301950038	Cane Creek 36-1-25-18	CANE CREEK 36-1-25-18	25S	18E	36	GRAND	UT	State	State	OW	S✓
975	4303730005	CHEVRON FED 1	CHEVRON FEDERAL 1H	29S	23E	24	SAN JUAN	UT	Federal	Federal	OW	S✓ 7-S
17837	4303750001	Threemile 12-7	THREEMILE UNIT 12-7-29-21	29S	21E	12	SAN JUAN	UT	Federal	Federal	OW	S✓
17920	4303750002	LA SAL 29-28	LA SAL UNIT 29-28-29-23	29S	23E	29	SAN JUAN	UT	Federal	Federal	OW	S✓
	4301950044	CANE CREEK UNIT 2-2-25-18		250S	180E	2	GRAND	UT	State	State	OW	APD✓
	4301950048	Cane Creek Unit 25-1-25-19		250S	190E	25	GRAND	UT	Federal	Federal	OW	APD✓
	4301950052	Cane Creek Unit 6-1-25-19		250S	190E	6	GRAND	UT	Federal	Federal	OW	APD✓
	4301950053	Cane Creek Unit 29-1-25-19		250S	190E	29	GRAND	UT	Federal	Federal	OW	APD✓ 2APD
	4301950054	Cane Creek 10-1-25-19		250S	190E	10	GRAND	UT	Federal	Federal	OW	APD✓
	4301950055	Cane Creek Unit 30-1-25-19		250S	190E	30	GRAND	UT	Federal	Federal	OW	APD✓
	4301950056	Cane Creek Unit 19-2-26-20		260S	200E	19	GRAND	UT	Federal	Federal	OW	APD✓

<u>Entity #</u>	<u>API #</u>	<u>Permitted Well Name</u>	<u>AKA Well Name</u>	<u>Township</u>	<u>Range</u>	<u>Section(s)</u>	<u>County</u>	<u>State</u>	<u>Mineral</u>	<u>Surface</u>	<u>Well Type</u>	<u>Well Status</u>
4301950057		Cane Creek Unit 14-1-25-19		250S	190E	14	GRAND	UT	Federal	Federal	OW	APD ✓
4301950058		Cane Creek Unit 2-3-25-18		250S	180E	2	GRAND	UT	Federal	State	OW	APD ✓
4301950059		Cane Creek Unit 16-3-25-18		250S	180E	16	GRAND	UT	Federal	State	OW	APD ✓
4301950060		Cane Creek Unit 19-1-25-19		250S	190E	19	GRAND	UT	Federal	Federal	OW	APD ✓
4301950061		Cane Creek Unit 32-2-25-19		250S	190E	32	GRAND	UT	State	State	OW	APD ✓
4301950062		Cane Creek Unit 17-1-25-19		250S	190E	17	GRAND	UT	Federal	Federal	OW	APD ✓
4301950063		Cane Creek Unit 16-4-25-18		250S	180E	16	GRAND	UT	Federal	State	OW	APD ✓
4301950064		Cane Creek Unit 2-4-25-18		250S	180E	2	GRAND	UT	Federal	State	OW	APD ✓
4301950065		Cane Creek Unit 5-1-25-18		250S	180E	5	GRAND	UT	Federal	Federal	OW	APD ✓
4301950068		8-2-26-20		260S	200E	8	GRAND	UT	Federal	Federal	OW	APD ✓
4301950069		Cane Creek Unit 19-3-26-20		260S	200E	19	GRAND	UT	Federal	Federal	OW	APD ✓
4301950070		Cane Creek Unit 21-1-25-19		250S	190E	21	GRAND	UT	Federal	Federal	OW	APD ✓
4301950071		Cane Creek Unit 12-2-26-19		260S	190E	12	GRAND	UT	Federal	Federal	OW	APD ✓
4301950072		Cane Creek Unit 26-4-25-19		250S	190E	26	GRAND	UT	Federal	Federal	OW	APD ✓
4301950073		Cane Creek Unit 21-1-25-18		250S	180E	21	GRAND	UT	Federal	Federal	OW	APD ✓
4301950074		Cane Creek Unit 9-1-25-18		250S	180E	9	GRAND	UT	Federal	Federal	OW	APD ✓
4301950075		Cane Creek Unit 7-1-25-19		250S	190E	7	GRAND	UT	Federal	Federal	OW	APD ✓
4301950076		Cane Creek Unit 5-2-25-18		250S	180E	5	GRAND	UT	Federal	Federal	OW	APD ✓
4301950077		Cane Creek Unit 7-1-25-18		250S	180E	7	GRAND	UT	Federal	Federal	OW	APD ✓
4301950078		Cane Creek Unit 13-1-25-18		250S	180E	13	GRAND	UT	Federal	Federal	OW	APD ✓
4303750070		Three Mile Unti 12-3-29-21		290S	210E	12	SAN JUAN	UT	Federal	Federal	OW	APD ✓
4303750071		Three Mile Unit 16-2-29-22		290S	220E	16	SAN JUAN	UT	Federal	State	OW	APD ✓
4301950036		CANE CREEK UNIT 2-1-25-18H2		25S	18E	2	GRAND	UT	Federal	State	OW	APD ✓

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

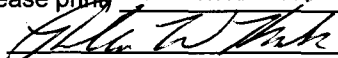
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	See attached well list
API number:	
Location:	Qtr-Qtr: Section: Township: Range:
Company that filed original application:	Fidelity Exploration & Production Company
Date original permit was issued:	
Company that permit was issued to:	Fidelity Exploration & Production Company

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		<input checked="" type="checkbox"/>
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?		<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. _____		

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Robert W. Kirkwood Title President
Signature  Date 4/4/10
Representing (company name) Wesco Operating, Inc.

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

Fidelity Exploration & Production Company Paradox APD List

<u>Date Issued</u>	<u>API #</u>	<u>Permitted Well Name</u>	<u>Township</u>	<u>Range</u>	<u>Section(s)</u>	<u>County</u>	<u>State</u>	<u>Mineral</u>	<u>Surface</u>	<u>Well Type</u>	<u>Well Status</u>
3/4/2014	4301950044	CANE CREEK UNIT 2-2-25-18	250S	180E	2	GRAND	UT	State	State	OW	APD
2/19/2015	4301950048	Cane Creek Unit 25-1-25-19	250S	190E	25	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950052	Cane Creek Unit 6-1-25-19	250S	190E	6	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950053	Cane Creek Unit 29-1-25-19	250S	190E	29	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950054	Cane Creek 10-1-25-19	250S	190E	10	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950055	Cane Creek Unit 30-1-25-19	250S	190E	30	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950056	Cane Creek Unit 19-2-26-20	260S	200E	19	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950057	Cane Creek Unit 14-1-25-19	250S	190E	14	GRAND	UT	Federal	Federal	OW	APD
7/21/2014	4301950058	Cane Creek Unit 2-3-25-18	250S	180E	2	GRAND	UT	Federal	State	OW	APD
8/6/2014	4301950059	Cane Creek Unit 16-3-25-18	250S	180E	16	GRAND	UT	Federal	State	OW	APD
8/6/2014	4301950060	Cane Creek Unit 19-1-25-19	250S	190E	19	GRAND	UT	Federal	Federal	OW	APD
9/22/2014	4301950061	Cane Creek Unit 32-2-25-19	250S	190E	32	GRAND	UT	State	State	OW	APD
7/30/2014	4301950062	Cane Creek Unit 17-1-25-19	250S	190E	17	GRAND	UT	Federal	Federal	OW	APD
8/12/2014	4301950063	Cane Creek Unit 16-4-25-18	250S	180E	16	GRAND	UT	Federal	State	OW	APD
9/24/2014	4301950064	Cane Creek Unit 2-4-25-18	250S	180E	2	GRAND	UT	Federal	State	OW	APD
9/2/2014	4301950065	Cane Creek Unit 5-1-25-18	250S	180E	5	GRAND	UT	Federal	Federal	OW	APD
11/25/2014	4301950068	8-2-26-20	260S	200E	8	GRAND	UT	Federal	Federal	OW	APD
12/19/2014	4301950069	Cane Creek Unit 19-3-26-20	260S	200E	19	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950070	Cane Creek Unit 21-1-25-19	250S	190E	21	GRAND	UT	Federal	Federal	OW	APD
1/13/2015	4301950071	Cane Creek Unit 12-2-26-19	260S	190E	12	GRAND	UT	Federal	Federal	OW	APD
1/13/2015	4301950072	Cane Creek Unit 26-4-25-19	250S	190E	26	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950073	Cane Creek Unit 21-1-25-18	250S	180E	21	GRAND	UT	Federal	Federal	OW	APD
1/20/2015	4301950074	Cane Creek Unit 9-1-25-18	250S	180E	9	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950075	Cane Creek Unit 7-1-25-19	250S	190E	7	GRAND	UT	Federal	Federal	OW	APD
1/20/2015	4301950076	Cane Creek Unit 5-2-25-18	250S	180E	5	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950077	Cane Creek Unit 7-1-25-18	250S	180E	7	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950078	Cane Creek Unit 13-1-25-18	250S	180E	13	GRAND	UT	Federal	Federal	OW	APD
7/8/2014	4303750070	Three Mile Unti 12-3-29-21	290S	210E	12	SAN JUAN	UT	Federal	Federal	OW	APD
10/2/2014	4303750071	Three Mile Unit 16-2-29-22	290S	220E	16	SAN JUAN	UT	Federal	State	OW	APD
12/16/2014	4301950036	Cane Creek Unit 2-1-25-18 H2	25S	18E	2	GRAND	UT	Federal	State	OW	APD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Blue Hills Gas Plant</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-90108
2. NAME OF OPERATOR: Fidelity Exploration & Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1801 California St., STE 250 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 893-3133		8. WELL NAME and NUMBER: Blue Hills Gas Plant
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: <u>Grand</u>		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>3/1/2016</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Blue Hills Gas Plant located in T23S-R19E, Sections 20, 29. Wesco Operating, Inc. has been named as successor Operator.

Wesco Operating, Inc.
P.O Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President

Signature Robert W. Kirkwood

NAME (PLEASE PRINT) <u>Darwin Subart</u>	TITLE <u>Chief Financial Officer</u>
SIGNATURE <u>Darwin Subart</u>	DATE <u>4/4/2016</u>

(This space for State use only)

APPROVED

APR 21 2016

DIV. OIL GAS & MINING
BY: Rachael Medina

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Compressor Booster Station</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Fidelity Exploration & Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1801 California St., STE 2500 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: <u>(303) 893-3133</u>		8. WELL NAME and NUMBER: Dubinky Booster Station
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: Grand		
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>3/1/2016</u>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			


12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

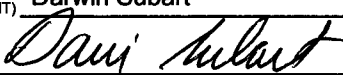
Effective March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Dubinky Booster Station located along Dubinky Road, approximately 18 miles northwest of Moab, 599142 E 4280872 N UTM Zone 12, NAD83. Wesco Operating, Inc. has been named as successor Operator.

Wesco Operating, Inc.
P.O. Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President


Signature

NAME (PLEASE PRINT) <u>Darwin Subart</u>	TITLE <u>Chief Financial Officer</u>
SIGNATURE 	DATE <u>4/4/2016</u>

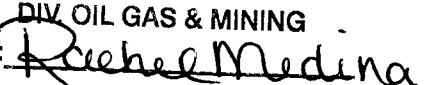
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APPROVED

APR 21 2016

(5/2000)

(See Instructions on Reverse Side)

DIV OIL GAS & MINING
BY: 

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

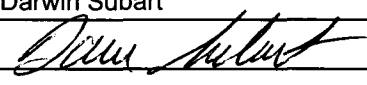
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Kane Springs 16-1	API Number 4301931341
Location of Well Footage : 960' FSL 1960' FWL County : Grand QQ, Section, Township, Range: SESW 16 25 18 State : UTAH	Field or Unit Name Cane Creek Lease Designation and Number ML-44333

EFFECTIVE DATE OF TRANSFER: 3/1/2016


CURRENT OPERATOR

Company: Fidelity Exploration & Production Company
Address: 1801 California Street, Suite 2500
city Denver state CO zip 80202
Phone: (303) 893-3133
Comments:

Name: Darwin Subart
Signature: 
Title: Chief Financial Officer
Date: 4/4/2016

NEW OPERATOR

Company: Wesco Operating, Inc.
Address: P.O. Box 1650
city Casper state WY zip 82602
Phone: (307) 265-5178
Comments:

Name: Robert W. Kirkwood
Signature: 
Title: President
Date: 4/7/16

(This space for State use only)

Transfer approved by:

Title:

Comments:

Approval Date:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML44333
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: WESCO OPERATING INC		7. UNIT or CA AGREEMENT NAME: CANE CREEK
3. ADDRESS OF OPERATOR: PO Box 1650, Casper, WY, 82602		8. WELL NAME and NUMBER: CANE CREEK UNIT 16-2-25-18
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0885 FNL 0708 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 25.0S Range: 18.0E Meridian: S		9. API NUMBER: 43019500460000
9. FIELD and POOL or WILDCAT: CANE CREEK		COUNTY: GRAND
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/20/2016	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Wesco Operating, Inc. intends to stimulate the Cane Creek Unit 16-2 well in the Cane Creek Formation using the attached procedure. The base fluid for the stimulation will be mineral oil blended with: gelling agent, crosslinker, breaker, and proppant. An estimated pumping schedule can be seen attached but may change depending on the pressures seen during the job. There are no known problems with the existing casing. the flow back will be sold with the oil and any produced water will be taken to the Kane Springs 16-1-25-18 water injection well. A current WBD can be seen attached.

Approved by the
October 03, 2016
Oil, Gas and Mining

Date: _____

By: D. Kirkwood

NAME (PLEASE PRINT) Thomas C Kirkwood	PHONE NUMBER 307 577-5328	TITLE Projects Engineer
SIGNATURE N/A	DATE 10/3/2016	

Cane Creek Unit 16-2-25-18

API # 43-019-50046

Wesco Operating Inc.

Complete Well with Gelled Oil Stimulation

Location: NENE, Sec. 16, T25S, R18E, Grand County, Utah

Elevations: GL = 5274' KB = 5297'

Depths: TD = 11365' PBD = 11304'

Tubular & Equipment:

Surface Casing:	13 3/8", 68 lb/ft, J-55 set @1201'KB, cmt to surf
Intermediate:	9 5/8", P 110, 47 lb/ft, set at 4,459' KB, cmt to surf
Production Casing:	7", HCP 110, 29-32 lb/ft, set at 12,019' KB TOC 4700' KB
Tubing:	249 jts 2 7/8" N-80 tbg

Current Producing Formation: Cane Creek

Current Perforations: Cane Creek: 8100-11280 5 spf 60 degree

Current Status: SI

Proposed Status: Producing

Recommendations:

The Cane Creek Unit 16-2 well was drilled in 2014, the Cane Creek formation was perforated, but was not productive. It is proposed to pull TCP guns, run a frac string and stimulate the well using an 8 stage mineral oil stimulation.

Procedure:

- 1) Test Rig Anchors, MIRU workover rig, MI pump, flat tank, and 2-500 BBL work tanks. Check for pressure on casing and tbg. Install BPV in tubing hanger and ND WH and NU BOP, pressure test to 4500 psi.
- 2) Blow down pressure on tbg and casing. Monitor for flow. MIRU cap string spoolers, un-land tbg and release Hornet packer set at 7282' KB. Spool out of hole as follows:
 - a. 154 jts, 2 7/8", N-80, 6.5#
 - b. Side pocket mandrel
 - c. 70 jts, 2 7/8", N-80, 6.5#
 - d. X Nipple
 - e. 1 jt, 2 7/8", N-80, 6.5#
 - f. Chemical Injection port
- 3) RDMO spoolers. MI TCP tech to help LD TCP guns. Continue to TOOH with following, standing back tbg:
 - a. 6', 2 7/8", N-80 pup, 6.5#
 - b. L-10 Connector with Hornet Packer
 - c. 6', 2 7/8", N-80 pup, 6.5#
 - d. 2 7/8" XN Nipple
 - e. 6', 2 7/8", N-80 pup, 6.5#
 - f. 2 7/8" Swivel
 - g. 10 jts, 2 7/8", N-80, 6.5#
 - h. 2 7/8" Swivel
 - i. 14 jts, 2 7/8", N-80, 6.5#
 - j. 3, 2 7/8" ported disks
 - k. 1 Model D firing head
 - l. 1, 4 1/2" x 15', blank safety spacer
 - m. 150, 4 1/2" x 21.2', Owen perf guns, 5spf, 60 degree phasing
 - n. 4 1/2" bull nose
- 4) RDMO TCP tech. PU 6" OD mill and motor on 2 7/8" N-80 tbg. TIH and tag up PBTD at 11304' KB. TOOH, LD same.
- 5) Monitor casing pressure, change out pipe rams to 4 1/2", MIRU pipe wrangler, PU 4 1/2" BTC frac string with oil swell packers as seen in detail below, fill as we go with mineral oil, PU 7", 32# X 4 1/2" Liner hanger and pack off assembly with required 4 1/2" DC for setting weight. Change out pipe rams to 2 7/8" once DC are in the well, TIH with 2 7/8" N-80 tbg to set liner hanger. Fill tbg and DC with diesel on TIH.
- 6) RIH and set liner hanger at ~ 7000' KB, ~200 ft above KOP. See: packer locations, sliding sleeve locations:

Stage Number	Upper Packer Top	Sliding Sleeve	Bottom Packer Top
1	10890	10926	10930
2	10720	10756	10760
3	10490	10526	10530
4	10220	10256	10260
5	10020	10056	10060

6	9470	9506	9510
7	9220	9256	9260
8	9010	9046	9050

- 7) Pressure up and set liner hanger, continue to pressure up to open stage 1, drop ball and shear off liner hanger, Pack off liner packer and pressure test to 3000 psi. Sting out of pack off assembly, and TOOH, LD 2 7/8" tbg. LD hanger and pack off setting tools. SWI
- 8) Change out 2 7/8" pipe rams for 4 1/2" pipe rams. MIRU hydrotester, PU seal assembly on 4 1/2" tie-back string single in hole hydrotesting to 9000 psi. Tag up liner hanger, and space out using 4 1/2" pups. Circulate 110 BBLs mineral oil down 4 1/2" casing up 7" X 4 1/2" annulus, after circulated, sting into liner hanger, ND BOP and land tbg in 7 1/16" 10K flanged WH. Pressure test 4 1/2" X 7" annulus to 2500 psi.
- 9) Drain up lines, RDMO workover rig.
- 10) MIRU frac tree for 4 1/2", 11.6#, P-110 casing. Pressure test frac tree to 10K psi. MIRU 8, 500 BBLs frac tanks and fill with frac fluid. MIRU flow back crew.
- 11) MIRU frac crew and test all 6 tanks of frac fluid. MIRU fire watch, PT lines to 10K, perform frac jobs per design. RDMO frac crew.
- 12) Flow back well based on flowback design: monitor pressure, rates, samples, and sand concentration.

Prepared: _____

Tom Kirkwood

Date: 9/30/16

Approved: _____

Brad Lane

Date: 9/30/16

Approved: _____

Robert Kirkwood

Date: 9/30/16

Schedule 1	Total Clean (gal)	Total Clean (bbls)	100 mesh (lbs)	30/50 Econo Prop (lbs)	Proppant Type	Stage Proppant (lbs)	Cum. Proppant (lbs)	Cum. Fluid (Bbls)	Total Proppant (lbs)
1 Pad	91,644	2,182	2,000	84,000		0	0	188	86,000
2 Pad						0	0	206	
21 0.50 ppg 100 mesh Sand Slug			12.00	0.000		0	0	206	1.5
4 1.00 ppg 30/50 Econoprop			12.00	0.500	100 mesh	250	250	200	1.0
5 2.00 ppg 30/50 Econoprop			12.00	1.000	30/50 Econo Prop	500	750	212	2.0
6 3.00 ppg 30/50 Econoprop			12.00	2.000	30/50 Econo Prop	1400	2,150	229	3.4
7 4.00 ppg 30/50 Econoprop			12.00	3.000	30/50 Econo Prop	3000	5,150	252	5.4
8 Flush			12.00	4.000	30/50 Econo Prop	5600	10,750	286	8.1
9 Drop Ball			12.00	0.000		0	10,750	290	8.5
10 Flush			12.00	0.000		0	10,750	290	8.5
11 Pad			12.00	0.000		0	10,750	461	22.7
12 Pad			12.00	0.000		0	10,750	479	24.2
13 0.50 ppg 100 mesh Sand Slug			12.00	0.500	100 mesh	250	11,000	473	23.7
15 1.00 ppg 30/50 Econoprop			12.00	1.000	30/50 Econo Prop	500	11,500	485	24.7
16 2.00 ppg 30/50 Econoprop			12.00	2.000	30/50 Econo Prop	1400	12,900	501	26.1
17 3.00 ppg 30/50 Econoprop			12.00	3.000	30/50 Econo Prop	3000	15,900	525	28.1
18 4.00 ppg 30/50 Econoprop			12.00	4.000	30/50 Econo Prop	5600	21,500	558	30.9
19 Flush			12.00	0.000		0	21,500	562	31.2
20 Drop Ball			12.00	0.000		0	21,500	562	31.2
21 Flush			12.00	0.000		0	21,500	726	44.8
22 Pad			12.00	0.000		0	21,500	726	44.8
23 Pad			12.00	0.000		0	21,500	744	46.3
24 0.50 ppg 100 mesh Sand Slug			12.00	0.500	100 mesh	250	21,750	738	45.8
26 1.00 ppg 30/50 Econoprop			12.00	1.000	30/50 Econo Prop	500	22,250	750	46.8
27 2.00 ppg 30/50 Econoprop			12.00	2.000	30/50 Econo Prop	1400	23,650	766	48.2
28 3.00 ppg 30/50 Econoprop			12.00	3.000	30/50 Econo Prop	3000	26,650	790	50.2
29 4.00 ppg 30/50 Econoprop			12.00	4.000	30/50 Econo Prop	5600	32,250	823	52.9
30 Flush			12.00	0.000		0	32,250	828	53.3
31 Drop Ball			12.00	0.000		0	32,250	828	53.3
32 Flush			12.00	0.000		0	32,250	988	66.7
33 Pad			12.00	0.000		0	32,250	988	66.7
34 Pad			12.00	0.000		0	32,250	1,006	68.1
35 0.50 ppg 100 mesh Sand Slug			12.00	0.500	100 mesh	250	32,500	1,000	67.6
37 1.00 ppg 30/50 Econoprop			12.00	1.000	30/50 Econo Prop	500	33,000	1,012	68.6
38 2.00 ppg 30/50 Econoprop			12.00	2.000	30/50 Econo Prop	1400	34,400	1,028	70.0
39 3.00 ppg 30/50 Econoprop			12.00	3.000	30/50 Econo Prop	3000	37,400	1,052	72.0
40 4.00 ppg 30/50 Econoprop			12.00	4.000	30/50 Econo Prop	5600	43,000	1,086	74.8
41 Flush			12.00	0.000		0	43,000	1,089	75.0
42 Drop Ball			12.00	0.000		0	43,000	1,089	75.0
43 Flush			12.00	0.000		0	43,000	1,245	88.1

END STAGE 1

END STAGE 2

END STAGE 3

END STAGE 4

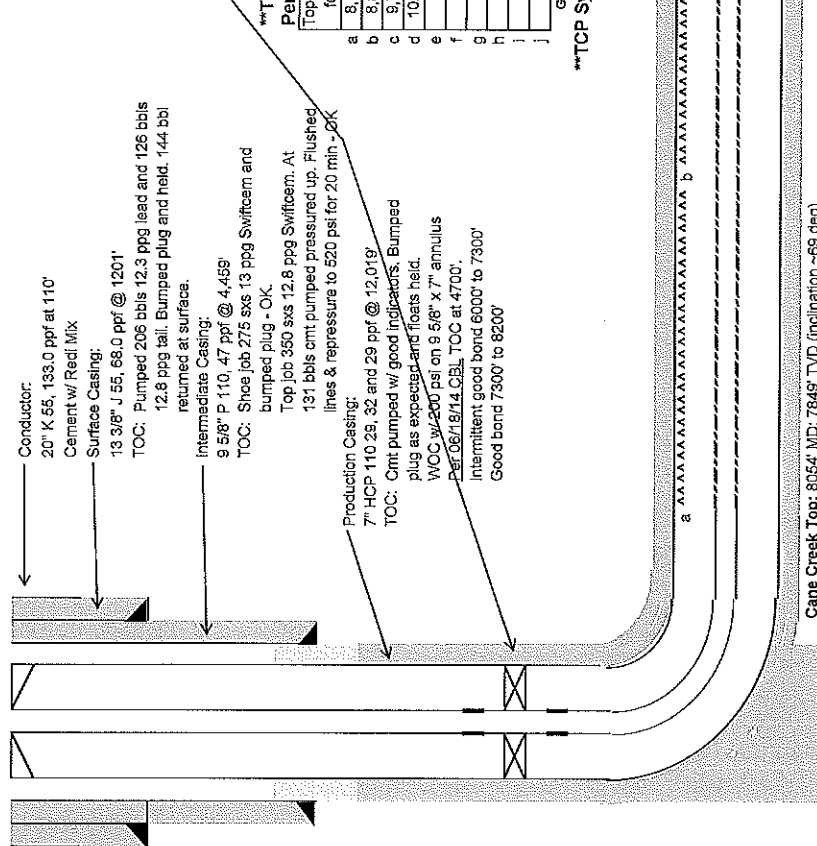
44	Pad	6565	156.3	12.00	0.000		0	43,000	1,245	88.1
45	Pad	750	17.9	12.00	0.000		0	43,000	1,263	89.6
46	0.50 ppg 100 mesh Sand Slug	500	11.9	12.00	0.500	100 mesh	250	43,250	1,257	89.1
48	1.00 ppg 30/50 Econoprop	500	11.9	12.00	1.000	30/50 Econo Prop	500	43,750	1,269	90.1
49	2.00 ppg 30/50 Econoprop	700	16.7	12.00	2.000	30/50 Econo Prop	1400	45,150	1,285	91.4
50	3.00 ppg 30/50 Econoprop	1000	23.8	12.00	3.000	30/50 Econo Prop	3000	48,150	1,309	93.4
51	4.00 ppg 30/50 Econoprop	1400	33.3	12.00	4.000	30/50 Econo Prop	5600	53,750	1,343	96.2
52	Flush	360	8.6	12.00	0.000		0	53,750	1,351	96.9
53	Drop Ball	0	0.0	12.00	0.000		0	53,750	1,351	96.9
54	Flush	6204	147.7	12.00	0.000		0	53,750	1,499	109.2
55	Pad	6204	147.7	12.00	0.000		0	53,750	1,499	109.2
56	Pad	750	17.9	12.00	0.000		0	53,750	1,517	110.7
57	0.50 ppg 100 mesh Sand Slug	500	11.9	12.00	0.500	100 mesh	250	54,000	1,511	110.2
59	1.00 ppg 30/50 Econoprop	500	11.9	12.00	1.000	30/50 Econo Prop	500	54,500	1,523	111.2
60	2.00 ppg 30/50 Econoprop	700	16.7	12.00	2.000	30/50 Econo Prop	1400	55,900	1,539	112.6
61	3.00 ppg 30/50 Econoprop	1000	23.8	12.00	3.000	30/50 Econo Prop	3000	58,900	1,563	114.6
62	4.00 ppg 30/50 Econoprop	1400	33.3	12.00	4.000	30/50 Econo Prop	5600	64,500	1,597	117.4
63	Flush	170	4.0	12.00	0.000		0	64,500	1,601	117.7
64	Drop Ball	0	0.0	12.00	0.000		0	64,500	1,601	117.7
65	Flush	6035	143.7	12.00	0.000		0	64,500	1,744	129.7
66	Pad	6035	143.7	12.00	0.000		0	64,500	1,744	129.7
67	Pad	750	17.9	12.00	0.000		0	64,500	1,762	131.2
68	0.50 ppg 100 mesh Sand Slug	500	11.9	12.00	0.500	100 mesh	250	64,750	1,756	130.7
70	1.00 ppg 30/50 Econoprop	500	11.9	12.00	1.000	30/50 Econo Prop	500	65,250	1,768	131.7
71	2.00 ppg 30/50 Econoprop	700	16.7	12.00	2.000	30/50 Econo Prop	1400	66,650	1,785	133.1
72	3.00 ppg 30/50 Econoprop	1000	23.8	12.00	3.000	30/50 Econo Prop	3000	69,650	1,809	135.0
73	4.00 ppg 30/50 Econoprop	1400	33.3	12.00	4.000	30/50 Econo Prop	5600	75,250	1,842	137.8
74	Flush	140	3.3	12.00	0.000		0	75,250	1,845	138.1
75	Drop Ball	0	0.0	12.00	0.000		0	75,250	1,845	138.1
76	Flush	6040	143.8	12.00	0.000		0	75,250	1,989	150.1
77	Pad	6040	143.8	12.00	0.000		0	75,250	1,989	150.1
78	Pad	750	17.9	12.00	0.000		0	75,250	2,007	151.6
79	0.50 ppg 100 mesh Sand Slug	500	11.9	12.00	0.500	100 mesh	250	75,500	2,001	151.1
81	1.00 ppg 30/50 Econoprop	500	11.9	12.00	1.000	30/50 Econo Prop	500	76,000	2,013	152.1
82	2.00 ppg 30/50 Econoprop	700	16.7	12.00	2.000	30/50 Econo Prop	1400	77,400	2,030	153.5
83	3.00 ppg 30/50 Econoprop	1000	23.8	12.00	3.000	30/50 Econo Prop	3000	80,400	2,053	155.4
84	4.00 ppg 30/50 Econoprop	1400	33.3	12.00	4.000	30/50 Econo Prop	5600	86,000	2,087	158.2
85	Flush	5905	140.6	12.00	0.000		0	86,000	2,227	169.9

CCU 16-2-25-18 As-Built Wellbore Diagram - 09/18/14

WELL NAME: CCU 16-2-25-18		SECTION, TOWNSHIP, RANGE: NENE 16 25S 18E	
FIELD: Cane Creek		SHL: 706' FEL 896' NAD	
LOCATION: Grand County, UT		SURFACE LAT: 38 deg 38' 5.56" NAD 1983	
API#: 43-019-50046		SURFACE LONG: 109 deg 55' 57.53" NAD 1983	
AFE NUMBER: 130185		KB: 5297' (23' KB)	
SPUD DATE: 05/13/2014		GL: 5274	
REVISION DATE: 06/19/2015		UPDATED BY: TCK	

PIPE	Size	Grade	Weight	CONN	OD (")	ID (")	Drift Dia (")	Burst	Collapse	TOC (')	TOP (')	BTM (')
Conductor	20	K-55	133.0			18.73	12.475			Surface	Surface	110
Surf Csg	13 3/8"	J-55	68.0	BTC	13.373	12.475	12.259	3,450	1,950	Surface	26.8	1,226
Inter Csg	9 5/8"	HCP 110	47.0	BTC	9.625	8.681	8.525	9,440	5,310	Surface	26.1	4,909
Prod Csg	7"	HCP 110	29.0	BTC	7.000	6.184	6.059	12,220	8,530		25	4,781
Prod Csg	7"	HCP 110	32.0	BTC	7.000	6.084	5.989	12,480	10,780		4781	8,224
Prod Csg	7"	HCP 110	29.0	BTC	7.000	6.184	6.059	12,220	8,530		8,224	11,352

Current Status: Drilling rig release 06/22/2014, 06/17/14 Drilling ran 7" bit and scraper to 11,303' and circ btm up clean, 06/18/14 Drilling ran CBL 8200' to surface (Weatherford CBL), 06/18/14 ran 7" bit and scraper to 11,118' and hung off on packer at 56.85'. Completion RU 09/02/14, Fired guns 09/18/14, intend to prep for frac



Cane Creek Top: 8054' MD; 7849' TVD (inclination ~69 deg)
Cane Creek B: 8290' MD; 7892' TVD (inclination ~68 deg)

BHL: 860' FNL, 848' FWL; Vert Section 3729'

Production Equipment

- Production Tubing:**
- 2 7/8" 6.5 ppg UN-80 EUE 8RD tubing (w/ space out pups 1 jnt below 'bg hanger) from surface
 - 2 7/8" side pocket mandrel w/ dummy valve at 5001'
 - 2 7/8" 6.5 ppg UN-80 EUE 8RD tubing
 - X profile 2.313" seal bore at ~ 6682'
 - 1 joint 2 7/8" 6.5 ppg UN-80 EUE 8RD
 - 4 x 2 7/8" ported chemical injection sub w/ 3/8" capillary tubing to surface
 - 6' x 2 7/8" 6.5 ppg Pup
 - L-10 on-off connector skirt w/ internal X profile (2.313" seal bore)
- Production Packer:**
- 2 7/8" x 7" Baker Hornet retrievable at 7282'

- Packer Tail Assembly:**
- 6' x 2 7/8" 6.5 ppg Pup
 - XN profile 2.313" seal bore & 2.205" NO-GO
 - 6' x 2 7/8" 6.5 ppg Pup
 - 2 7/8" box x pin tubing swivel
 - 324' 2 7/8" 6.5 ppg UN-80 EUE 8RD tubing
 - 2 7/8" box x pin tubing swivel
 - 447' 2 7/8" 6.5 ppg UN-80 EUE 8RD tubing
 - 2 7/8" 6.5 ppg UN-80 EUE 8RD to ported flow subs and 4,500' Owen TCP gun system at 8100' top shot (three 2 7/8" ported flow subs immediately above or 1 joint above gun assembly)
 - (three 2 7/8" ported flow subs immediately above or 1 joint above gun assembly)

**TCP Completion

Perforations (underbalanced TCP completion)									
Top (MD)	5th (MD)	Top (TVD)	5th (TVD)	Net Int (MD)	Size	SPF	Phase	Holes	Status
feet	feet	feet	feet	feet	Inch	#	deg	#	
a	8,100	8,850	-7,864	750	0.35	5	60	3750	proposed
b	8,890	9,650		780	0.35	5	60	3800	"
c	9,710	10,280		570	0.35	5	60	2850	"
d	10,320	11,280	-7,852	960	0.35	5	60	4800	"
e				0	0.35	5	60	0	"
f				0	0.35	5	60	0	"
g				0	0			0	"
h				0	0			0	"
i				0	0			0	"
j				0	0			0	"
Gross: 3,150				3,040				15200	140

KOP: ~7270'

**TCP System: Owen 4 1/2" EHC, 5 spt, 60 deg phase, 39 gm, Hard Rock Charges and 640' Kodiak propellant

TD: 11365' MD; 7858' TVD, 87 deg ind
7" Shoe: 11352' MD float collar
11304' MD float shoe

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML44333
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: WESCO OPERATING INC		7. UNIT or CA AGREEMENT NAME: CANE CREEK
3. ADDRESS OF OPERATOR: PO Box 1650 , Casper, WY, 82602		8. WELL NAME and NUMBER: CANE CREEK UNIT 16-2-25-18
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0885 FNL 0708 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 25.0S Range: 18.0E Meridian: S		9. API NUMBER: 43019500460000
9. FIELD and POOL or WILDCAT: CANE CREEK		COUNTY: GRAND
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/22/2016				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Wesco Operating, Inc. stimulated the Cane Creek # 16-2-25-18 well in the Cane Creek member of the Paradox formation. The 8 stage job consisted of 1884 BBLs of mineral oil and 92,597 lbs 30/50 sand. Flow back will be sold with any oil and the produced water will be taken to the Kane Springs 16-1 injection well.

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

February 01, 2017

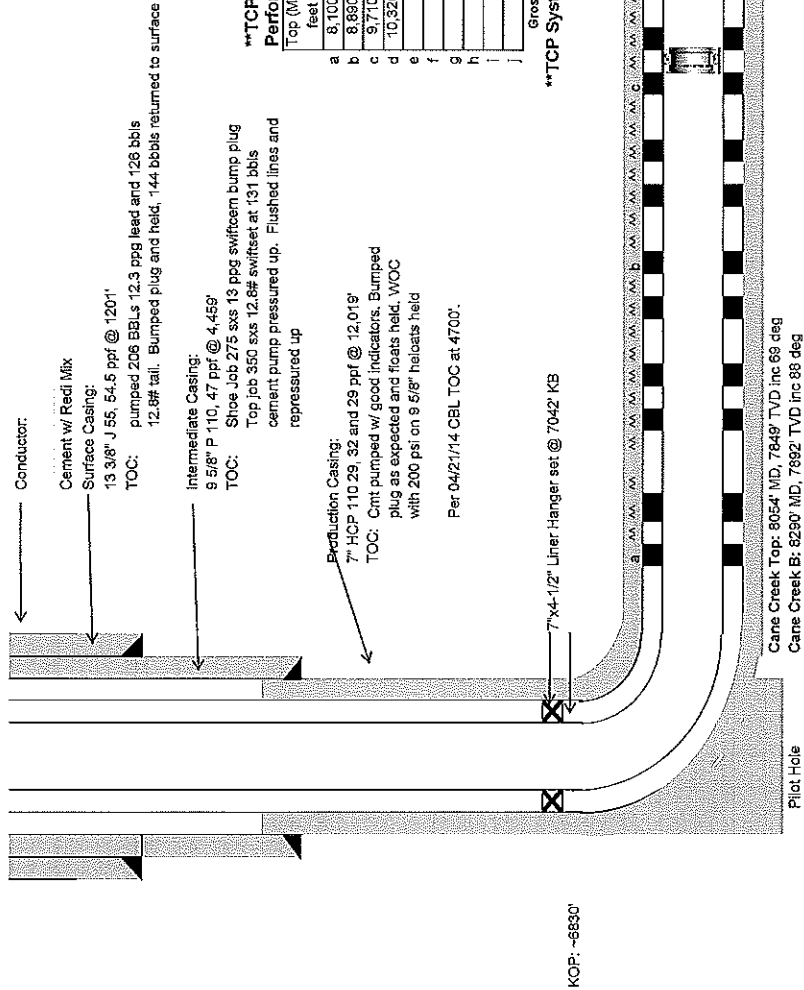
NAME (PLEASE PRINT) Thomas C Kirkwood	PHONE NUMBER 307 577-5328	TITLE Projects Engineer
SIGNATURE N/A	DATE 1/16/2017	

CCU 16-2 Inner Liner Wellbore Diagram - 12-19-16

WELL NAME: CCU 16-2-25-18		SECTION, TOWNSHIP, RANGE: NENE 18 25S 18E	
FIELD: Cane Creek	SHL: 706' FEL 895' FNL	BHL: 860' FNL, 848' FWL: Vert Section 3729'	
LOCATION: Grand County, UT	SURFACE LAT: 38 deg 38' 5.56" NAD 1983		
API#: 43-019-00046	SURFACE LONG: 109 deg 55' 57.53" NAD 1983		
AFE NUMBER: 130185	KB: 5297' (23' KB)		
SPUD DATE: 05/13/2014	GL: 5274'		
REVISION DATE: 06/19/2015	UPDATED BY: TCK		

PIPE	Size	Grade	Weight	CONN	OD (")	ID (")	Drift Dia (")	Burst	Collapse	TOC (')	TOP (')	BTM (')
Conductor	20	K-55	133.0		13.373	12.415	12.259	3,450	1,950	Surface	26.8	1,226
Surf Csg	13 3/8"	J-55	68.0	BTC	9.625	8.881	8.525	9,440	5,310	Surface	26.1	4,909
Inter Csg	9 5/8"	HCP 110	47.0	BTC	7.000	6.184	6.059	12,220	8,550	25	4,781	
Prod Csg	7"	HCP 110	29.0	BTC	7.000	6.094	5.959	12,460	10,760	47.81	8,224	
Prod Csg	7"	HCP 110	29.0	BTC	7.000	6.184	6.059	12,220	8,550	8,224	11,352	

Current Status: Drilling to release 04/07/2014. 7" RBP kill plug (wireline set) is in well at 6641'.
Completion RU 04/14/14; Fire guns 05/02/14; Turn well over to production est 05/12/14



Sleeve Depth		Swell Packer Depth	
Bail Sleeve 1	10,923	Packer 1	10,834
Bail Sleeve 2	10,761	Packer 2	10,873
Bail Sleeve 3	10,505	Packer 3	10,772
Bail Sleeve 4	10,251	Packer 4	10,710
Bail Sleeve 5	10,042	Packer 5	10,551
Bail Sleeve 6	9,515	Packer 6	10,500
Bail Sleeve 7	9,259	Packer 7	10,262
Bail Sleeve 8	9,048	Packer 8	10,201
		Packer 9	10,053
		Packer 10	9,992
		Packer 11	9,526
		Packer 12	9,465
		Packer 13	9,270
		Packer 14	9,209
		Packer 15	9,059
		Packer 16	8,598

**TCP Completion
Perforations (underbalanced TCP perforations per 05/02/14 completion)

Top (MD)	Bot (MD)	Top (TVD)	Bot (TVD)	Net Int (MD)	Size	SPF	Phase	Holes	Status
feet	feet	feet	feet	feet	inch	#	deg	#	
a 8,100	8,850	~7,854		750	0.35	5	60	3750	open
b 8,890	9,650			750	0.35	5	60	3800	open
c 9,710	10,280			570	0.35	5	60	2850	open
d 10,320	11,280	~7,852		960	0.35	5	60	4800	open
e									
f									
g									
h									
i									
j									
Gross: -8,100				3,040				15200	

**TCP System: Owen 4 1/2" EHC, 5 spf, 60 deg phase, 39 gm, Hard Rock Charges and 840' Kodiak propellant

TD: 11355' MD, 7858' TCD, 87 deg
7" Shoe: 11352' MD float collar
11304' MD float shoe